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products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Page 3 Safety warning notice WARNING! To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on
your lap or obstruct the computer air vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Page 4 Safety warning notice... Table of contents 1 Product description ... 1 2 External component identification ... 5 Top
components ... 5 Display components ... 5 Display components ... 5 Keys ... 6 Lights ... 7 TouchPad components ... 8 Front components ... 9 RTC battery ... 41 Keyboard
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Creating recovery discs ... 89 Backing up your information ... Page 8 viii... Graphics Panels Memory Description HP Pavilion dm3 Entertainment PC Intel Pentium U5400 (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM (1.2 GHz, 3M L3 cache) UMA Intel Core i3-330UM 
Discrete Intel Dual Core i5-430UM (1.2 GHz SC turbo up to 1.73GHz, 3M L3 cache) Page 10 Chapter 1 Product description Supports 9.5-mm, 6.35-cm (2.5-inch) hard drives Serial ATA (SATA) HP ProtectSmart Hard Drive Protection Customer-accessible 640-GB, 7200-rpm 500-GB, 7200-rpm 320-GB, 7200-rpm 250-gen 2
GB, 7200-rpm 160-GB, 7200-rpm Support for 128-GB SSD in single HDD configurations Supports only external media card Ports Keyboard/pointing devices Power requirements Security Operating system Description Digital Media Slot, supporting the following optional digital card formats: 

MultiMediaCard
(MMC) Secure Digital (SD) Memory Card Secure Digital (SD) Memory Card Windows 7 Professional (64-bit) Microsoft® Office preinstalled on: Windows 7 Home Basic (32-bit and 64-bit) Windows 7 Home Premium (32-bit and 64-bit) Windows 7 Windows 7 Home Premium (32-bit and 64-bit)
Professional (32-bit and 64-bit) End-user replaceable parts: AC adapter Battery (system) Hard drive... External component Internal microphones (2) Webcam Function Record sound. On—The webcam is in use. Records video and captures still photographs. Top
components... Keys Item Component Windows logo key Windows applications key Action keys Chapter 2 External component identification Function Displays system information with an arrow key or the key. Lights Item Component Caps
lock light Mute light Wireless light TouchPad light Description On—Caps lock is on. On—Computer sound is off. • White—An integrated wireless device, such as a wireless local area network (WLAN) device and/or a Bluetooth® device, is on. •... TouchPad components Item Component TouchPad light Left TouchPad button TouchPad scroll zone Right
TouchPad button Chapter 2 External component identification Function • Off—TouchPad is enabled. • Amber—TouchPad is disabled. Functions like the right button on an external mouse. Front components Item Comp
Security cable slot Vent External monitor port HDMI port USB port Drive light Function Produce sound. Function Attaches an optional security cable is designed to act as a deterrent, but it might not prevent the computer from being mishandled or stolen. Right-side components Item Component
Digital Media Slot (select models only) Audio-out (headphone) jack Audio-in (microphone) jack USB ports (2) RJ-45 (network) jack (optional) AC adapter light Power connector Chapter 2 External component Hard drive bay Battery bay
Battery release latch Vent Function Holds the hard drive and wireless wide area network (WWAN) module (select models only). NOTE: To prevent an unresponsive system, replace the wireless module authorized for use in the computer by the governmental agency that regulates wireless devices in your country or region. Page
20 Item Component Memory module compartment Speakers (2) Chapter 2 External component identification Function Contains the memory module slot (2 slots on select models) and a wireless module authorized for use in the computer by the
governmental agency that regulates wireless devices in your country or region. Wireless antennas NOTE: Your computer might look different from the illustration in this section Item Component WWAN antennas (2)* *The antennas are not visible from the outside of the device. For optimal transmission, keep the
areas immediately around the antennas free from obstructions. Additional hardware components Item Component Power cord* AC adapter Battery* *Batteries and power cords vary in appearance by region or country. Chapter 2 External component identification Function Connects the AC adapter. Converts AC power to DC power. Powers the computer
when the computer is not plugged into external power. Illustrated parts catalog Serial number label When ordering parts or requesting information, provided on the serial number label. (1) Product name—This is the product name affixed to the front of the computer. (2) Serial number (s/n)—This
is an alphanumeric identifier that is unique to each product. Computer major components Chapter 3 Illustrated parts catalog... Page 25 Item Description Display assembly internal component spare part information, see Keyboard (includes keyboard cable) for
use in the: United States French Canada Thailand Japan Taiwan South Korea Backlit Keyboard (includes keyboard cable) for use in the: United States French Canada... Page 26 Item Description Intel Core i3-330UM (1.2 GHz, 3M L3 cache) Discrete Intel Dual Core i5-430UM (1.2 GHz SC turbo up to
1.73GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) Discrete I
hinges) Webcam module 33.8-cm (13.3-in) HD LED Brightview SVA panel Spare part number 626637-001 619499-001 619499-001 619448-001 Display assembly components... Page 28 Item Description Display cable (includes microphone) Wireless antenna (includes WLAN and WWAN antenna transceivers and cable) Display back cover
(includes logo) for use with: Display EMI shield (not illustrated) Chapter 3 Illustrated parts catalog Spare part number 619436-001 626736-001... Plastics kit Item Description Plastics k
for use in: Australia India Japan South Korea Taiwan Thailand the People's Republic of China the United Kingdom and Singapore the United Kingdom and Singapore the United States Cable Kit Power cord for use in Japan 490371-AB1 Power cord for use in Japa
in Taiwan 490371-AD1 Power cord for use in South Korea 490371-D61 Power cord for use in India 584383-001 DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with LightScribe external drive (includes bezel, bracket, and cable) Page 33 Spare part Description number 619443-001 320-GB, 7200-rpm hard drive (includes hard drive bracket, and cable)
and Mylar cover) 619444-001 500-GB, 7200-rpm hard drive (includes hard drive bracket and Mylar cover) 619445-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hard drive bracket and Mylar cover) 619446-001 Hard Drive Hardware Kit (includes hardware Kit (
 Removal and replacement procedures Preliminary replacement requirements Tools required Use the following tools to complete the removal and replacement procedures: Magnetic screwdriver requirements Tools required Use the following tools to complete the removal and replacement procedures:
keep in mind during disassembly and assembly procedures. Cables are placed in their proper locations during the computer, be sure that cables are placed in their proper locations during the computer, be sure that cables are placed in their proper locations during the computer. Cables and connectors CAUTION: When servicing the computer, be sure that cables are placed in their proper locations during the reassembly procedures.
required to unseat or seat the cables during removal and insertion. Grounding guidelines Electrostatic discharge (ESD). Circuitry design and structure determine the degree of sensitivity. Networks built into many integrated circuits provide some protection, but in many cases, ESD and structure determine the degree of sensitivity.
containers or packaging. • Keep ESD-sensitive parts in their containers until the parts arrive at static-free workstations. • When seated, wear a wrist strap connected to a grounded system. Wrist straps are flexible straps with a
minimum of one megohm ±10% resistance in the ground cords. To provide proper ground, wear a strap snugly against the skin at all times. Component replacement procedures This chapter provides removed, or loosened when servicing the
computer. Make special note of each screw size and location during removal and replacement. Computer feet are adhesive-backed rubber pads. The feet attach to the base enclosure in the locations illustrated below. Spare part number 619452-001 Component replacement procedures... Battery Description 6
cell, 2.80 Ah, 62 Wh Before disassembling the computer. Shut down the computer is off or in Hibernation, turn on the computer. NOTE: The SIM is provided by the end user as a security measure for
the WWAN module. The SIM should be removed, placed into a static-dissipative container, and then replaced when the computer is reassembled. Before removing the SIM: Shut down through the operating system. Hard drive
NOTE: The hard drive spare part kit includes a hard drive bracket and hard drive bracket and hard drive bracket and hard drive connector, as well as the hard drive bracket and hard dr
cover (2). The hard drive cover is included in the plastics kit, spare part number 619450-001. Remove the four Phillips PM2.5×4.0 screws (1) that secure the hard drive to the system board. Use the mylar tab to lift the hard drive out of the computer at an angle (2). Page 46 To replace the hard drive bracket, remove the four Phillips PM3.0×4.0 screws (1)
computer is off or in Hibernation, turn on the computer, and then shut it down through the operating system. Page 48 Remove the module (2) by pulling it away from the slot at an angle. NOTE: Memory module slot. Reverse this procedure to install a memory module
Disconnect the power from the Computer by first disconnecting the AC adapter from the computer. Keyboard Description For use in French Canada with
 backlight For use in Japan with backlight For use in South Korea with backlight For use in Taiwan with backlight... Page 51 Turn the computer display-side up with the front toward you. Open the computer as far as possible. Release the tabs along the top (1) edge of the keyboard using a thin flat-bladed screwdriver. Life
 the top edge of the keyboard, and set the keyboard back towards the display (2). Release the zero insertion force (ZIF) connector (1) to which the keyboard cable is attached and disconnect the keyboard back towards the display (2). Release the zero insertion force (ZIF) connector (1) to which the keyboard cable is attached and disconnect the keyboard cable (2) from the system board. Page 52 Reverse this procedure to install the keyboard. Chapter 4 Removal and replacement procedures... Top cover
 Description Top cover (includes TouchPad) Before removing the top cover: Shut down the computer is off or in Hibernation, turn on the computer and then shut it down through the operating system. Disconnect all external devices connected to the computer. Page 54 Remove the three Phillips PM2.5×6.0 screw
 that secures the top cover to the computer. Release the touchpad ZIF connector (1). Chapter 4 Removal and replacement procedures... Page 55 Lift the rear edge of the top cover (2). NOTE: The TouchPad is glued to the top cover and is included with the top cover spare
part. Reverse this procedure to install the top cover. Speaker assembly (includes cable) Before removing the speaker assembly (includes cable) Before removi
devices connected to the computer. Page 57 Reverse this procedure to install the speaker assembly. Component replacement procedures... Mini system board (left) Description Mini system board (left)
and then shut it down through the operating system. Disconnect all external devices connected to the computer. Page 59 Lift up and remove the mini system board (left). Component replacement procedures... Mini system board (right) Description Mini system board (right) Before removing the
mini system board: Shut down the computer is off or in Hibernation, turn the computer on, and then shut it down through the operating system. Disconnect all external devices connected to the computer on, and then shut it down through the operating system.
board (right). Component replacement procedures... Power cable is included in the computer is off or in Hibernation, turn the computer on, and then shut it down through the operating system. Disconnect all external devices
connected to the computer. WLAN module Description Broadcom 802.11 bgn WLAN + Bluetooth Combo card Before removing the WLAN module: Shut down the computer is off or in Hibernation
 turn on the computer, and then shut it down through the operating system. Page 64 Remove the WLAN module (3) by pulling it away from the slot at an angle. CAUTION: To prevent an unresponsive system, replace the wireless module only with a wireless module authorized for use in the computer by the governmental agency that regulates wireless
 devices connected to the computer. Page 66 Remove the WWAN module (3) by pulling it away from the slot at an angle. CAUTION: To prevent an unresponsive system, replace the wireless module only with a wireless module authorized for use in the computer by the governmental agency that regulates wireless module only with a wireless module o
 button board Description Power button board Before removing the power button board: Shut down the computer on, and then shut it down through the operating system. Disconnect all external devices connected to the computer. Page 68 Lift out and remove the power
button board (4). Reverse this procedure to install the power button board. Chapter 4 Removal and replacement procedures... Display assembly Description 33.8-cm (13.3-in) HD LED BrightView display assembly Description 33.8-cm
computer, and then shut it down through the operating system. Disconnect all external devices connected to the computer. Page 70 Pull the WLAN and WWAN antenna cables (2) from the clip in the routing channel leading to the display screws in the following steps. Failure to
 support the display assembly can result in damage to the assembly and other components. Page 71 Lift the display assembly internal components, remove the following screw covers and
screws: (1) Two rectangle mylar screw covers on the display bezel bottom edge (2) Two round mylar screw covers on the display bezel bottom edge (3). The display panel is available
using spare part number 619448-001. To replace the webcam module (3). Page 74 Lift up to remove the antenna transceivers (3). The wireless antenna transceivers with cable is available
 using spare part number 619435-001.. Reverse this procedure to install the display wireless antenna transceivers. To replace the WWAN antenna transceivers, lift up on the silver transceiver and release the adhesive material from the display cover (1). Fan/heat sink assembly Description Fan/heat sink assembly (includes replacement thermal material)
for use only with computer models with UMA graphics subsystem memory Fan/heat sink assembly (includes replacement thermal material) for use only with computer models with discrete graphics subsystem memory Before removing the fan/heat sink assembly: Shut down the computer. Page 76 Disconnect the fan cable from the system board. Follow
 the sequence embossed on heat sink to loosen the four Phillips PM2.5×7.0 captive screws (1-4) that secure the fan/heat sink assembly from
 side to side to detach the assembly. Page 77 Remove the fan/heat sink assembly (5) by lifting straight up. NOTE: The following steps apply only to computer models equipped with graphics subsystems having discrete memory. Turn the system board right-side up, with the front toward you. Component replacement procedures... Page 78 Disconnect the
fan cable from the system board. Loosen the fan/heat sink assembly and system board components, it might be necessary to move the fan/heat sink assembly and system board components, it might be necessary to move the fan/heat sink
fan/heat sink assembly is removed. Page 80 pads and thermal material on systems with discrete graphics subsystems. Chapter 4 Removal and replacement procedures... System board NOTE: The system board
spare part kit includes UMA or discrete graphics subsystem memory and replacement thermal material. Description Intel Pentium U5400 (1.2 GHz, 3M L3 cache) Discrete Intel Core i3-330UM (1.2 GHz, 3M L3 cache) Discrete Intel Dual Core i5-430UM
(1.2 GHz SC turbo up to 1.73GHz, 3M L3 cache) Discrete Intel Core i3-380UM (1.33 GHz, 3M L3 cache) UMA... Page 82 Remove the system board to the computer upright with the right side toward you. Remove the system board to the computer upright with the right side toward you. Remove the system board to the computer upright with the right side toward you.
 base enclosure. Remove the hard drive cable (3) from the bottom of the system board. Setup Utility (BIOS) Starting Setup Utility is a ROM-based information and customization utility that can be used even when your Windows operating system is not working. The utility reports information about the computer and provides settings for
system information The following procedure explains how to display system information in Setup Utility is not open, begin at step 2. Open Setup Utility is not open, begin at step 2. Open Setup Utility is not open, begin at step 2. Open Setup Utility is not open, begin at step 2. Open Setup Utility is not open, begin at step 3. If Setup Utility is not open, begin at step 4. If Setup Utility is not open, begin at step 4. If Setup Utility is not open, begin at step 4. If Setup Utility is not open, begin at step 4. If Setup Utility is not open, begin at step 4. If Setup Utility is not open, begin at step 4. If Setup Utility is not open, begin at step 4. If Setup Utility is not open, begin at step 5. If Setup Utility is not open, begin at step 5. If Setup Utility is not open, begin at step 5. If Setup Utility is not open, begin at step 5. If Setup Utility is not open, begin at step 5. If Setup Utility is not open, begin at step 5. If Setup Utility is not open, begin at step 5. If Setup Utility is not open, begin at step 5. If Setup Utility is not open, begin at step 5. If Setup Utility is not open, begin at step 6. If Setup Utility is not open, begin at step 6. If Setup Utility is not open, begin at step 6. If Setup Utility is not open, begin at step 7. If Setup Utility is not open, begin at step 7. If Setup Utility is not open, begin at step 8. If Setup Utility is not open, begin at step 8. If Setup Utility is not open, begin at step 8. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not open, begin at step 9. If Setup Utility is not o
 without saving changes. • To exit Setup Utility and save your changes from the current session: If the Setup Utility menus are not visible, press arrow keys to select Exit > Exit Saving Changes, and then press enter. •... System Configuration menu Select Exit > Exit Saving Changes, and then press enter.
 Processor C6 State (select models only) LAN Power Saving (select Primary Hard Disk Self Test... Page 88 Select Secondary Hard Disk Self Test (on select models only) Memory Test Chapter 5 Setup Utility (BIOS) To do this Run a
comprehensive self-test on the system memory. Run a diagnostic test on the HP Web site are packaged in compressed files called SoftPaqs. Some download packages contain a file named Readme.txt, which contains information regarding
installing and troubleshooting the file. Page 90 To download a BIOS update: Access the page on the HP Web site that provides software for the computer and access the BIOS update you want to download. Specifications Computer specifications Computer specifications are the computer and access the BIOS update you want to download. Specifications Computer specifications are the computer and access the BIOS update you want to download. Specifications Computer specifications are the computer and access the BIOS update you want to download.
Dimensions Length Width Height (front to back) Weight Input power Operating (not writing to optical disc) Operating (writing to optical disc) Operating Nonoperating Nonoperat
 specify thermal limits for plastic surfaces. 13.3-inch display specifications Dimensions Height Width Diagonal Number of colors Contrast ratio Brightness Pixel resolution Pitch Format Configuration Backlight Total power consumption Viewing angle Chapter 6 Specifications Metric U.S. 16.5 mm 6.5 in 29.34 mm 11.6 in 33.66 mm 13.3 in Up to 16.8 million
 500:1 (typical) 200 nits (typical) Hard drive specifications Dimensions Height Width Weight Interface type Transfer rate Security Seek times (typical plocks Disc rotational speed Operating temperature *1 GB = 1 billion bytes when referring to hard drive storage capacity. Actual accessible
 capacity is less. Actual drive specifications may differ slightly. External Blu-ray ROM DVD±RW SuperMulti Double-Layer Drive specifications Read Write BD-ROM, BD-ROM-DL, BD-R, DVD-RAM (Ver.2), DVD+R, BD-RAM 8X DVD 16X CD-R 16X C
 DL, BD-RE, BD-RE-DL, DVD-R, CD-R, and CD-ROM 8X DVD+R, DVD-R, DVD
DVD-RW 2.4X DVD+R(9) 5X DVD-RAM Transfer mode External DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive specifications Read Write... Start, right-click Computer, click Management. If the partition is present, an HP Recovery drive is listed in the window. If a recovery partition is not present, use the
recovery discs you created. Creating recovery discs to be sure that you can restore the system to its original factory state if you experience serious system failure or instability. Create these discs after setting up the computer for the first time. Backing up your information As you add new software and data files
 back up the system on a regular basis to maintain a reasonably current backup. Back up the system at the following times: • At regularly scheduled times NOTE: Set reminders to back up your information periodically. Using Windows Backup and Restore To create a backup using Windows Backup and Restore: NOTE: Be sure that the computer is
 connected to AC power before you start the backup process. NOTE: The backup process might take over an hour, depending on file size and the speed of the computer. Follow the on-screen instructions. Performing a recovery Monager to create
 set of recovery discs (entire drive backup) as soon as you set up your computer. Recovering from the dedicated recovery partition, you will not be able to recover using this procedure. Use the discs you created to
recover your operating system and software. Connector pin assignments Audio out, left channel Audio out, right channel Ground... Page 103 Signal Red analog Green analog Blue analog Not connected
Ground Ground analog Ground analog Ground analog Ground analog Ground analog Ground Monitor detect DDC 2B data 1- TMDS data 0- TMDS data 0- TMDS data 1- TMDS dat
 TMDS data 0- TMDS clock + Signal TMDS clock shield TMDS clock shield TMDS clock- No connect... RJ-45 (network) Universal Serial Bus Signal +5 VDC Data Data + Ground RJ-45 (network) Power cord set requirements The wide-range input feature of the computer permits it to operate
 from any line voltage from 100 to 120 volts AC, or from 220 to 240 volts AC The 3-conductor power cord set included with the computer meets the requirements for use in the country/region Australia Austria Belgium Canada Denmark Finland France
Germany Italy Japan The Netherlands Norway The People's Republic of China South Korea Sweden Switzlerland Taiwan The United Kingdom The United Kin
 responsible for evaluation in the country or region where it will be used. When you remove these components, handle them carefully. NOTE: Materials Disposal. This HP product contains mercury may be regulated because of environmenta
considerations. For disposal or recycling information, contact your local authorities, or see the Electronic Industries Alliance (EIA) Web site at . Page 109 Perform the following steps: Remove all screw covers (1) and screws (2) that secure the display bezel to the display assembly. Lift up and out on the left and right inside edges (1) and the top and
 bottom inside edges (2) of the display bezel until the bezel disengages from the display assembly. Page 110 Disconnect all display panel assembly to the display enclosure. Remove the display panel assembly (2) from the display enclosure
Turn the display panel assembly upside down. Remove the display panel frame (2) from the display panel frame (2) from the display panel. Remove the backlight cover to the display panel. Remove the backlight cover to the display panel frame (2) from the display panel frame (2) from the display panel frame (3) from the display panel frame (4) from the display panel frame (5) from the display panel frame (6) from the display panel frame (7) from the display panel frame (8) from the display panel frame (9) from the display panel frame (1) from the display panel frame (2) from the display panel frame (3) from the display panel frame (3) from the display panel frame (4) from the display panel frame (4) from the display panel frame (5) from the display panel frame (6) from the display panel frame (8) from the display pan
cover. Turn the display panel right-side up. Page 112 Remove the backlight contains mercury. Exercise caution when removing and handling the backlight to avoid damaging this component
and causing exposure to the mercury. Remove the backlight from the backlight from the display rear panel. Release the LCD panel to the display rear panel. Release the LCD panel to the display rear panel. Release the LCD panel to the display rear panel.
 Remove the LCD panel. Index AC adapter, spare part numbers 24 applications key, Windows 6 audio, product description 2 audio-in jack connector pinout 94 audio-out jack connector pinout 94 base enclosure, spare part number
 18, 24... Page 115 external media cards, product description 3 external monitor port connector pinout 94 external optical drive spare part number 33 fn key 6 front components 9 graphics, product description 1 grounding equipment and methods 31... Page
116 hard drives 2 keyboard 3 memory module 1 operating system 3 optical drives 2 product name 1 removal/replacement preliminaries 27 procedures 32 right-side components 10 RJ-45 (network) jack,... Hi @tubby3232
 Welcome to HP Support Community. Thank you for posting your query, I will be glad to help you. Updating the BIOS on your HP laptop can improve performance, fix bugs, and enhance security. Follow these steps carefully. Using HP Support Assistant (Recommended) Open HP Support Assistant If installed, search for HP Support Assistant in Windows
 and open it. If not installed, download it from HP's website. Check for Updates Click on Updates Click on Update via HP Website Find Your Model Press Windows
 R, type msinfo32, and press Enter. Note your System Model and BIOS Update Go to the HP Software & Driver Downloads page. Enter your laptop model and select BIOS update Go to the HP Software & Driver Download it. Install the BIOS Update Run the downloaded BIOS update file (.exe).
 Follow the on-screen instructions. The system will restart multiple times. BIOS Update via USB (If Windows Doesn't Boot) Prepare a USB Drive (at least 8GB, formatted to FAT32). Download the BIOS (press Esc, F2, or F10 at boot).
 Select "Firmware Management" > "BIOS Update" and follow instructions. Note: Keep your laptop plugged in during the update. Take care and have a good day. Please click "Accepted Solution" if you feel my post solved your issue, it
 will help others find the solution. Click the "Kudos/Thumbs Up" on the bottom right to say "Thanks" for helping! Max3Aj HP Support @releish62323, Welcome to HP Support Community. Thank you for posting your query, I will be glad to help you. To download or upgrade the BIOS for your HP desktop with the 8BC8 motherboard, follow these steps:
 Using HP Support Assistant Open HP Support Assistant Open HP Support Assistant: If it's not installed, download and install. If a BIOS update is available, select it and click "Download and install". Manual Update via
HP Website Identify Your Product: Find your computer sproduct to find the Correct BIOS update. Install the Update: Follow the on-screen instructions to download and install the BIOS update. Updating from BIOS Setup
 Enter BIOS Setup: Restart your computer and press F10 repeatedly to enter the BIOS setup utility. Check for Updates: Select "Check HP.com for BIOS (Basic Input Output System) (Windows) | HP® Support>HP Business Desktop PCs
Updating the BIOS (Basic Input Output System) | HP® Support I hope this helps. Take care and have a good day. Please click "Accepted Solution" if you feel my post solved your issue, it will help others find the solution. Select "Yes" on the bottom left to say "Thanks" for helping! Max3Aj HP Support Hi @Hassan7701 Welcome to HP Support
Community. Thank you for posting your guery, I will be glad to help you. Updating the BIOS (Basic Input/Output System) can be a crucial step in improving system stability, compatibility with hardware, or fixing bugs. However, BIOS updates can sometimes cause issues if not done properly. If you're encountering an error while trying to update your
BIOS, here are a few common solutions to help you resolve the problem. Steps to Update BIOS Version Before attempting to update, make sure you are updating to the latest compatible BIOS Version. Check Current BIOS Version. Press Windows + R, type msinfo32, and hit Enter. Look for BIOS Version/Date in the System
Information window. This will tell you the current version of your BIOS. 2. Download the Correct BIOS update Ensure you're downloading the correct BIOS update Ensure you're downloading the correct BIOS update Ensure you're downloading the correct BIOS update Ensure you're download the Correct BIOS update Ensure you're downloading the correct BIOS update Ensure you're download the Correct BIOS update Ensure you're you're download the Correct BIOS update Ensure you're you'r
 BIOS update section and download the latest version compatible with your device. Check Release Notes: Carefully read the release notes for any specific instructions or prerequisites before updating the BIOS. 3. Create a Backup Before proceeding, back up important data. While BIOS updates are generally safe, there is always a small risk of failure, so
it's good to ensure your important files are backed up. 4. Prepare a BIOS Update USB Drive (If Necessary) If you encounter an issue while updating through Windows, you might need to use a bootable USB Drive (If Necessary) If you encounter an issue while updating through Windows, you might need to use a bootable USB Drive (If Necessary) If you encounter an issue while updating through Windows, you might need to use a bootable USB Drive (If Necessary) If you encounter an issue while updating through Windows, you might need to use a bootable USB Drive (If Necessary) If you encounter an issue while updating through Windows, you might need to use a bootable USB Drive (If Necessary) If you encounter an issue while updating through Windows, you might need to use a bootable USB Drive (If Necessary) If you encounter an issue while updating through Windows, you might need to use a bootable USB Drive (If Necessary) If you encounter an issue while updating through Windows, you might need to use a bootable USB Drive (If Necessary) If you encounter an issue while updating through Windows, you might need to use a bootable USB Drive (If Necessary) If you encounter an issue while updating through Windows, you might need to use a bootable USB Drive (If Necessary) If you encounter an issue while updating through Windows (If Necessary) If you encounter an issue while updating through the properties of the propert
to create a bootable USB drive. Place the BIOS update file on the USB drive. Enter BIOS/UEFI Setup: Shut down your laptop. Power it back on and immediately press the Esc or F10 key to enter the BIOS menu, navigate to Tools and select HP BIOS Update from the options. If you are using a bootable USB, select Update from USB. I
hope this helps. Take care and have a good day. Please mark this post as "Accepted Solution" if the issue is resolved and if you feel this reply was helpful click "Yes". Rachel571 HP Support. Sneha 01- HP support and if you feel this reply was helpful click "Yes". Rachel571 HP Support and if you feel this reply was helpful click "Yes". Rachel571 HP Support and if you feel this reply was helpful click "Yes". Rachel571 HP Support and if you feel this reply was helpful click "Yes". Rachel571 HP Support and if you feel this reply was helpful click "Yes". Rachel571 HP Support and if you feel this reply was helpful click "Yes". Rachel571 HP Support and if you feel this reply was helpful click "Yes". Rachel571 HP Support and if you feel this reply was helpful click "Yes".
From 1968 to 1992, the United Kingdom used the McDonnell Douglas F-4 Phantom II as one of its principal combat aircraft. The Phantom was procured to serve in both the Royal Navy's Fleet Air Arm and the Royal Air Force (RAF) in several different roles.
of British technology. Two variants were initially built: the F-4K was a carrier-based air-defence interceptor for the Fleet Air Arm, while the F-4M was initially used by the RAF for tactical strike and reconnaissance, before transitioning to an air defence role in the 1970s. In the mid-1980s, a third Phantom variant was obtained when fifteen former US Navy
 F-4J aircraft were purchased to augment the UK's air defences. Although the Fleet Air Arm ceased using the Phantom in 1978, the RAF retained it until 1992, when it was withdrawn as part of a series of post-Cold War defence cuts. (Full article...)
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Franciscan friar, was permitted by the Pope to keep "Muhammad" as his baptismal name? ... that Robert Mugabe's motorcade was known for speeding and killing people? ... that Elizabeth Holtzman's opponent ran an ad saying "maybe I'd like to have her as a daughter, but not as a DA" before her election as the first female Brooklyn District Attorney? ...
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the Portuguese legislative election, the Democratic Alliance wins the most seats in parliament. Austria, represented by JJ with the song "Wasted Love", wins the Eurovision Song Contest. A tornado outbreak leaves at least 27 people dead in the Midwestern and Southeastern United States. Ongoing: Gaza war M23 campaign Russian invasion of Ukraine
timeline Sudanese civil war timeline Recent deaths: Iim Irsay Yury Grigorovich Yuri Vladimirov Colton Ford Werenoi Benjamin Ritchie Nominate an article May 27 Manchu Prince Dorgon (depicted) defeated rebel leader Li Zicheng of the Shun dynasty at the Battle of Shanhai Pass, allowing the Manchus to enter and
conquer the capital city of Beijing. 1799 - War of the Second Coalition: Australians voted overwhelmingly to
include Indigenous Australians in population counts for constitutional purposes and to allow the federal government to make special laws affecting them in states. 1997 - A destructive F5-rated tornado tracked through a subdivision of homes northwest of Jarrell, Texas, killing 27 people. Diego Ramírez de Arellano (d. 1624)Julia Ward Howe (b. 1819)Cilla
Black (b. 1943) Gérard Jean-Juste (d. 2009) More anniversaries: May 26 May 27 May 28 Archive By email List of days of the year About Anemonoides blanda, the Balkan anemone, Grecian windflower, or winter windflower, is a species of flowering plant in the family Ranunculaceae. The species is native to southeast Europe and the Middle East. It grows
up to 10 to 15 centimetres (4 to 6 inches) tall and is valued for its daisy-like flowers, which appear in early spring, a time when little else is in flower. The flowers are found in various colors and are radially symmetrical, containing seven or more sepals and petals. This purple A. blanda flower was photographed in Bamberg, Germany. Photograph credit:
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news about Wikipedia and the broader Wikipedia and the broader Wikipedia. Reference desk - Ask guestions about using or editing Wikipedia. Reference desk - Ask guestions about using or editing Wikipedia. Reference desk - Ask guestions about using or editing Wikipedia. Reference desk - Ask guestions about using or editing Wikipedia.
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WikiquoteCollection of quotations WikisourceFree-content library WikispeciesDirectory of species WikiversityFree learning tools WikiversityFree learning t
50,000+ articles Asturianu Azərbaycanca 🖂 🖂 🖂 🖂 🖂 🖂 🖂 Erysk Gaeilge Galego Hrvatski ودون Frysk Gaeilge Galego Hrvatski اردو 🖂 🖂 🖂 🖂 🖂 🖂 🖂 🖂 🖂 🖂 Etrieved from " 2 This article needs additional citations for verification. Please help improve this article by adding citations to reliable
sources. Unsourced material may be challenged and removed. Find sources: "1644" - news · newspapers · books · scholar · ISTOR (August 2016) (Learn how and when to remove this message) Calendar vear Years Millennium 2nd millennium 2
1643 1644 1645 1646 1647 vte July 1: The Battle of Colberger Heide is fought between Sweden and Denmark-Norway off of the German coast. July 2: Parliament wins control of northern England from King Charles in the Battle of Marston Moor. 1644 by topic Arts and science Architecture Art Literature Music Science Leaders State leaders Colonial
governors Religious leaders Birth and death categories Births - Deaths Establishments and disestablishments - Disestablishments Works category Works vte 1644 in various calendar 1644MDCXLIVAb urbe condita 2397Armenian calendar 1644MD
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the Julian calendar, the 1644th year of the Common Era (CE) and Anno Domini (AD) designations, the 644th year of the 2nd millennium, the 44th year of the 17th century, and the 5th year of the 17th century, and the 5th year of the 17th century, and the 5th year of the 1840s decade. As of the 2nd millennium, the 44th year of the 1840s decade. As of the 2nd millennium, the 44th year of the 1840s decade. As of the 2nd millennium, the 44th year of the 1840s decade. As of the 1840s decade. As of the 2nd millennium, the 44th year of the 1840s decade. As of the 2nd millennium, the 44th year of the 2nd millennium, the 4nd millennium, the 4nd millennium, the 4nd millennium and the 2nd millennium and the
year It is one of eight years (CE) to contain each Roman numeral once (1000(M)+500(D)+(-10(X)+50(L))+(-1(I)+5(V)) = 1644). Kolumna Zygmunta erected. January 26 - First English Civil War: Battle of Nantwich - The Parliamentarians defeat the
 Royalists, allowing them to end the 6-week siege of the Cheshire town.[2] January 30 Dutch explorer Abel Tasman departs from Batavia in the Dutch East India Company, to map the north coast of Australia. Tasman commands three ships, Limmen, Zeemeeuw and
Braek, and returns to Batavia at the beginning of August with no major discoveries. Battle of Ochmatów: Polish-Lithuanian Commonwealth forces under Tugay Bey. February 5 - The first livestock branding law in America is passed in Connecticut.[3]
March 24 - Roger Williams is granted an official grant for his Rhode Island Colony from the Parliament of English colonists are slain, the settlers pursue
Opchanacanough, who is imprisoned in Jamestown for the rest of his life.[4] This is the last such Indian rebellion in the region. April 25 - A popular Chinese rebellion led by Li Zicheng sacks Beijing, prompting Chongzhen, the last emperor of the Ming dynasty, to commit suicide. May 6 - Johan Mauritius resigns as Governor of Brazil.[3] May 25 - Ming
general Wu Sangui forms an alliance with the invading Manchus and opens the gates of the Great Wall of China at Shanhaiguan Pass, letting the Manchus through towards the capital Beijing. May 26 - Battle of Montijo: The Kingdom of Portuguese
Restoration War. May 27 - Battle of Shanhai Pass: The Manchu Qing dynasty and Wu Sangui gain a decisive victory over Li Zicheng's Shun dynasty. June 3 - Li Zicheng proclaims himself emperor of China, marking the beginning of Manchu rule over
China proper. June 11 - During the English Civil War, Prince Rupert and his men take Liverpool is later reclaimed by Sir John Moore. July 1 - Torstenson War: Battle of Schleswig-Holstein. The battle is indecisive but represents a minor
success for the Dano-Norwegian fleet. July 2 - English Civil War: Battle of Marston Moor - The Parliamentarians crush the Royalists in Yorkshire, ending Charles I's hold on the north of England. [6] September 1 - English Civil War: Battle of Tippermuir - Montrose defeats Lord Elcho's Covenanters, reviving the Royalist cause in Scotland. September 2 -
English Civil War: Second Battle of Lostwithiel (in Cornwall) - Charles I and the Royalists gain their last major victory.[7] September 15 - Pope Innocent X succeeds Pope Urban VIII, becoming the 236th pope.[8] October 1 - The Jews of Mogilev, Polish-Lithuanian Commonwealth, are attacked during Tashlikh. November 8 - The Shunzhi Emperor, the
second emperor of the Qing dynasty, is enthroned in Beijing after the collapse of the Holy Roman Empire. Areopagitica, an appeal for freedom of speech written by John Milton, is published in
London. November - The Castle of Elvas in Portugal resists a 9-day siege by the Spanish during the Portuguese Restoration War. December 18 New Style) - As Christina comes of age, she is made ruling queen of Sweden. December 18 New Style) - As Christina comes of age, she is made ruling queen of Sweden. December 18 New Style) - As Christina comes of age, she is made ruling queen of Sweden. December 18 New Style) - As Christina comes of age, she is made ruling queen of Sweden. December 18 New Style) - As Christina comes of age, she is made ruling queen of Sweden.
Macau during mass by colonists loyal to Portugal during the Portuguese Restoration War. Sigismund's Column is erected in Warsaw to commemorate King Sigismund III Vasa, who moved the capital of Poland from Kraków to Warsaw in 1596. Philosopher René Descartes publishes Principia Philosophiae (Principles of Philosophy) in Amsterdam. The opera
Ormindo is first performed in Venice (music by Francesco Cavalli, and libretto by Giovanni Faustini). The West India Company[which?] displays greater interest in profit than in colonization.[vague] Thomas Britton Veit Hans Schnorr von Carolsfeld Otto Mencke Henry Winstanley Henrietta of England January 9 - Robert Gibbes, English-born landgrave in
 South Carolina (d. 1715) January 10 Louis François, duc de Boufflers, Marshal of France (d. 1711) Celestino Sfondrati, Italian Catholic cardinal (d. 1696) January 11 - Hayashi Hōkō, Japanese philosopher (d. 1712) January 12 - John Partridge, English astrologer (d. 1708) January 23 - Jonas
Budde, Norwegian army officer (d. 1710) January 25 - Antoine Thomas, Jesuit missionary priest and astronomer (d. 1709)[9] January 26 - Thomas Boylston, American colonial doctor (d. 1713) February 7 - Nils Bielke, member of the High Council of
Sweden (d. 1716) February 8 - Pierre de La Broue, American bishop (d. 1720) February 12 - Jakob Ammann, Swiss founder of the Amish sect (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach (d. 1712) February 24 - Maria Elisabeth Lämmerhirt, German mother of Johann Sebastian Bach
German iron and cobalt magnate (d. 1715) March 21 - Sir Walter Bagot, 3rd Baronet, English politician (d. 1704) March 25 - Heinrich von Cocceji, German jurist from Bremen (d. 1719) March 31 - Henry Winstanley, English
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engineer (d. 1703) April 6 - António Luís de Sousa, 2nd Marquis of Minas, Portuguese general, governor-general of Brazil (d. 1721) April 11 - Marie Jeanne Baptiste of Savoy-Nemours, Duchess of Savoy (d. 1724) April 17 - Abraham
Storck, Dutch painter (d. 1708) April 21 - Conrad von Reventlow, Danish statesman, first Grand Chancellor of Denmark (d. 1707) May 2 - Robert Cotton, English politician (d. 1707) May 5 - Sir Richard Newdigate, 2nd Baronet, English priest remarkable for lavish gifts to the Catholic Church and charity (d. 1707) May 5 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1717) May 5 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 5 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 5 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 6 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 7 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 8 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 9 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 9 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 9 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 9 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 9 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 9 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 9 - Sir Richard Newdigate, 2nd Baronet, English politician (d. 1708) May 9 - Sir Richard Newdigate, 2nd Baronet, English Politician (d. 1708) May 9 - Sir Richard Newdigate, 2nd Baronet, 2nd Baronet
landowner (d. 1710) May 26 - Michael Ettmüller, German physician (d. 1683) June 2 - William Salmon, English medical writer (d. 1713) June 7 - Johann Christoph Volkamer, German botanist (d. 1670)[10] June 17 - Johann Wolfgang Franck,
German baroque composer (d. 1710) July 2 - Abraham a Sancta Clara, German Augustinian friar (d. 1709) July 4 - Josceline Percy, 11th Earl of Northumberland, English noble (d. 1700) July 2 - Peter Drelincourt, Irish
chaplain (d. 1722) August 6 Christian Ernst, Margrave of Brandenburg-Bayreuth (1655-1712) (d. 1712) Louise de La Vallière, French mistress of Louis XIV of France (d. 1704) August 28 (bapt.) - Gilles Schey, Dutch admiral (d. 1703) August 29 - Anne Bourdon, nun in
New France (d. 1711) August 30 - Thomas Tufton, 6th Earl of Thanet, English politician (d. 1729) September 3 - Richard Newport, 2nd Earl of Bradford, English politician (d. 1723) September 22 - Jacques Échard, French
Dominican, historian of the Order (d. 1724) September 25 - Ole Rømer, Danish astronomer (d. 1710) October 1 - Jean Rousseau, French viol player (d. 1724) October 3 - Adriaen Frans Boudewijns, landscape painter (d. 1719) October 12 - Christopher Sandius
Dutch Arian writer (d. 1680) October 13 - Sipihr Shikoh, Mughal Emperor (d. 1718) October 14 - William Penn, English Quaker and founder of Pennsylvania (d. 1718) October 13 - Sipihr Shikoh, Mughal Emperor (d. 1701) December 8 - Maria d'Este, Italian noble (d. 1684)
December 9 - Robert Kirk, Scottish folklorist, Bible translator, Gaelic scholar (d. 1728) December 23 - Tomás de Torrejón y Velasco, Spanish composer, musician and organist (d. 1711) Matsuo Bashō, Japanese
poet (d. 1694) Pietro Erardi, Maltese chaplain and painter (d. 1727)[12] Antonio Stradivari, Italian violin maker (d. 1737)[13] Pope Urban VIII Johannes Wtenbogaert January 20 - Stefano Amadei, Italian painter (b. 1580) January 31 - Georg II of Fleckenstein-Dagstuhl, German
nobleman (b. 1588) February 28 - Guru Har Gobind, the Sixth Sikh Guru (b. 1595) March 15 - Countess Louise Juliana of Nassau, Regent of Bohemia (b. 1611) March 29 - Lord John Stewart, Scottish aristocrat, Royalist commander in the English Civil War (b. 1621) April 2 - Diego Salcedo
 Spanish bishop (b. 1575) April 10 - Reverend William Brewster, English Pilgrim leader (b. 1567) April 25 - Chongzhen, last Ming Emperor of China (suicide) (b. 1611) April 10 - Reverend William Brewster, English Pilgrim leader (b. 1567) April 25 - Chongzhen, last Ming Emperor of China (suicide) (b. 1591) June 17 Anne de Montafié, Countess of Clermont-en-
 Beauvaisis, French countess (b. 1577) John of St. Thomas, Portuguese philosopher (b. 1589) July 4 - Brian Twyne, English archivist (b. 1581) July 7 - Hedwig of Hesse-Kassel, countess consort of Schaumburg (b. 1589) July 4 - Brian Twyne, English archivist (b. 1581) July 7 - Hedwig of Hesse-Kassel, countess consort of Schaumburg (b. 1589) July 16 - Giovanni Biliverti, Italian painter (b. 1585) July 25 - Amar Singh Rathore, Rajput nobleman affiliated with the royal house of
Marwar (b. 1613) July 29 - Pope Urban VIII (b. 1568)[14] August 25 - Johann Heinrich Alting, German Lutheran theologian (b. 1583) September 7 Guido Bentivoglio, Italian statesman and historian (b. 1579)[15] Ralph Corbie, Irish Jesuit (b. 1598) September 8 John Coke
English politician (b. 1563)[16] Francis Quarles, English poet (b. 1584) November 6 - Elisabeth of France, queen of Philip IV of Spain (b. 1587) October 30 - Jorge de Cárdenas y Manrique de Lara, Spanish noble (b. 1584) November 6 - Thomas Roe, English diplomat (b. c.
1581) November 10 - Luis Vélez de Guevara, Spanish writer (b. 1579) November 20 - Nathaniel Foote, American colonist (b. 1582) December 20 - Albert IV, Duke of Saxe-Eisenach (from 1640) (b. 1599) December 23 - Sir Alexander Carew, 2nd Baronet, English politician (b. 1609)
December 28 - John Bankes, Attorney General and Chief Justice to King Charles I of England (b. 1589) December 30 - Jan Baptist van Helmont, Flemish chemist (b. 1577) A Braddick, Michael J. (2015). The Oxford handbook of the English revolution. Oxford, UK; New York: Oxford University Press. p. 103. ISBN 9780199695898. Coward, Barry (1994)
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sources: "16th century" - news · newspapers · books · scholar · JSTOR (September 2022) (Learn how and when to remove this message) Millennia 2nd millennium Century 15th century 16th century 17th centu
1540s 1550s 1560s 1570s 1580s 1590s Categories: Births - Deaths Establishments - Disestablishments - Dises
Guinea, and other islands of Southeast Asia, as well as a hypothetical Arctic continent and a yet undetermined Terra Australis.[1]The 16th century began with the Julian or the Gregorian year 1600 (MDC), depending on the reckoning used (the Gregorian calendar
introduced a lapse of 10 days in October 1582).[1] The Renaissance in Italy and Europe saw the emergence of important artists, authors and scientists, authors and led to the foundation of important subjects which include accounting and political science.
refuted the theory of celestial spheres through observational measurement of the 1572 appearance of a Milky Way supernova. These events directly challenged the long-held notion of an immutable universe supported by Ptolemy and Aristotle, and led to major revolutions in astronomy and science. Galileo G
invented the first thermometer and made substantial contributions in the fields of physics and astronomy, becoming a major figure in the Scientific Revolution in Europe. Spain and Portugal colonized large parts of Central and South America, followed by France and England in Northern America and the Lesser Antilles. The Portuguese became the
masters of trade between Brazil, the coasts of Africa, and their possessions in the Indies, whereas the Spanish came to dominate the Greater Antilles, Mexico, Peru, and opened trade across the Pacific Ocean, linking the Americas with the Indies. English and French privateers began to practice persistent theft of Spanish and Portuguese treasures. This
era of colonialism established mercantilism as the leading school of economic thought, where the economic system was viewed as a zero-sum game in which any gain by one party required a loss by another. The mercantilist doctrine encouraged the many intra-European wars of the period and arguably fueled European expansion and imperialism
throughout the world until the 19th century or early 20th century. The Reformation in central and northern Europe gave a major blow to the authority of the papacy and the Catholic Church. In England, the British-Italian Alberico Gentili wrote the first book on public international law and divided secularism from canon law and Catholic theology
European politics became dominated by religious conflicts, with the groundwork for the epochal Thirty Years' War being laid towards the end of the century. In the Middle East, the Ottoman Empire continued to expand, with the sultan taking the title of caliph, while dealing with a resurgent Persia. Iran and Iraq were caught by a major popularity of the
Shia sect of Islam under the rule of the Safavid dynasty of warrior-mystics, providing grounds for a Persia independent of the majority-Sunni Muslim world. [2] In the Indian subcontinent, following the defeat of the Delhi Sultanates, Rajput states
and the Mughal Empire[3] by Emperor Babur, a direct descendant of Timur and Genghis Khan.[4] His successors Humayun and Akbar, enlarged the empire to include most of South Asia. Japan suffered a severe civil war at this time, known as the Sengoku period, and emerged from it as a unified nation under Toyotomi Hideyoshi. China was ruled by the
Ming dynasty, which was becoming increasingly isolationist, coming into conflict with Japan over the control of Korea as well as Japanese pirates. In Africa in the late 19th century, most of Africa was left uncolonized. For timelines of earlier events, see
15th century and Timeline of the Middle Ages. Mona Lisa, by Leonardo da Vinci, c. 1503-1506, one of the world's best-known paintings 1501: Michelangelo returns to his native Florence to begin work on the statue David. 1501: Safavid dynasty reunifies Iran and rules over it until 1736. Safavids adopt a Shia branch of Islam.[5] 1501: First Battle of
Cannanore between the Third Portuguese Armada and Kingdom of Cochin under João da Nova and Zamorin of Kozhikode's navy marks the beginning of Portuguese conflicts in the Golden Horde, ending its existence. 1503: Spain defeats
France at the Battle of Cerignola. Considered to be the first battle in history won by gunpowder small arms. 1503: Leonardo da Vinci begins painting the Mona Lisa and completes it three years later. 1503: Nostradamus is born on either December 21. 1504: A period of drought, with famine in all of Spain. 1504: Death of Isabella I of
Castile; Joanna of Castile becomes the Queen. 1504: Foundation of the Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunqas, in what is modern Sudan 1505: Sultanate of Sennar by Amara Dunq
Trenggono builds the first Muslim kingdom in Java, called Demak, in Indonesia. Many other small kingdoms were established in other islands to fight against Portuguese. Each kingdom introduced local language as a way of communication and unity. 1506: Leonardo da Vinci completes the Mona Lisa. 1506: King Afonso I of Kongo wins the battle of
Mbanza Kongo, resulting in Catholicism becoming Kongo's state religion. Battle of Cerignola: El Gran Capitan finds the corpse of Louis d'Armagnac, Duke of Nemours 1506: At least two thousand converted Jews are massacred in a Lisbon riot, Portugal. 1506: Christopher Columbus dies in Valladolid, Spain. 1506: Poland is invaded by Tatars from the
Crimean Khanate. 1507: The first recorded epidemic of smallpox in the New World on the island of Hispaniola. It devastates the native Taíno population.[6] 1507: Afonso de Albuquerque conquered Hormuz and Muscat, among other bases in the Persian Gulf, taking control of the region at the entrance of the Gulf. 1508: The Christian-Islamic power
struggle in Europe and West Asia spills over into the Indian Ocean as Battle of Chaul during the Portuguese-Mamluk War 1508-1512: Michelangelo paints the Sistine Chapel ceiling. 1509: The defeat of joint fleet of the Sultan of Gujarat, the Mamlûk Burji Sultanate of Egypt, and the Zamorin of Calicut with support of the Republic of Venice and the
Ottoman Empire in Battle of Diu marks the beginning of Portuguese dominance of the Spice trade and the Indian Ocean. 1509: The Portuguese king sends Diogo Lopes de Sequeira, Sultan Mahmud Shah captures and/or kills several of his men and attempts an assault
on the four Portuguese ships, which escape.[7] The Javanese fleet is also destroyed in Malacca. 1509: Krishnadevaraya ascends the throne of Vijayanagara Empire. Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India. 1511: Afonso de Albuquerque of Portugal conquers Goa in India.
Portugal conquers Malacca, the capital of the Sultanate of Malacca in present-day Malaysia. 1512: Copernicus writes Commentariolus, and proclaims the Sun the capital of the Sultanate of Malacca in present-day Malaysia. 1512: The southern part (historical core) of the Kingdom of Navarre is invaded by Castile and Aragon. 1512: Qutb Shahi dynasty, founded by Quli Qutb Mulk, rules
Golconda Sultanate until 1687. 1512: The first Portuguese exploratory expedition was sent eastward from Malacca (in present-day Malaysia) to search for the 'Spice Islands' (Maluku) led by Francisco Serrão is shipwrecked but struggles on to Hitu (northern Ambon) and wins the favour of the local rulers.[9] 1513: Machiavelli writes The Prince, a
treatise about political philosophy 1513: The Portuguese mariner Jorge Alvares lands at Macau, China, during the Ming dynasty. 1513: Henry VIII defeats the French at the Battle of Flodden Field in which invading Scots are defeated by Henry VIII's forces. 1513: Sultan Selim I ("The Grim") orders the massacre of Shia
Muslims in Anatolia (present-day Turkey). 1513: Vasco Núñez de Balboa, in service of Spain arrives at the Pacific Ocean (which he called Mar del Sur) across the Isthmus of Panama. He was the first European to do so. 1514: The Battle of Orsha halts Muscovy's expansion into Eastern Europe. 1514: Dózsa rebellion (peasant revolt) in Hungary.Martin
Luther initiated the Reformation with his Ninety-five Theses in 1517. 1514: The Battle of Chaldiran, the Ottoman Empire gainst Safavid dynasty. 1515: The Ottoman Empire wrests Eastern Anatolia from the Safavids after the Battle of
Chaldiran. 1515: The Ottomans conquer the last beyliks of Anatolia, the Dulkadirs and the Ramadanids. 1516-1517: The Sweating sickness epidemic in Tudor England. [10] 1517: The Reformation begins when Martin Luther posts his Ninety-five Theses in Saxony
1518: The Treaty of London was a non-aggression pact between the major European nations. The signatories were Burgundy, France, England, the Holy Roman Empire, the Netherlands, the Papal States and Spain, all of whom agreed not to attack one another and to come to the aid of any that were under attack. 1518: Mir Chakar Khan Rind leaves
 Baluchistan and settles in Punjab. 1518: Leo Africanus, also known as al-Hasan ibn Muhammad al-Wazzan al-Fasi, an Andalusian Berber diplomat who is best known for his book Descrittione dell'Africa (Description of Africa), is captured by Spanish pirates; he is taken to Rome and presented to Pope Leo X. 1518: The dancing plague of 1518 begins in
Strasbourg, lasting for about one month. 1519: Leonardo da Vinci dies of natural causes on May 2. Europe at the time of the accession of Charles V in 1519 1519: Wang Yangming, the Chinese philosopher and governor of Jiangxi province, describes his intent to use the firepower of the fo-lang-ji, a breech-loading Portuguese culverin, in order to suppress
the rebellion of Prince Zhu Chenhao. 1519: Barbary pirates led by Hayreddin Barbarossa, a Turk appointed to ruling position in Algiers by the Ottoman Empire, raid Provence and Toulon in southern France. 1519: Death of Emperor Maximilian; Charles V, Holy
Roman Emperor (ruled until 1556). 1519-1522: Spanish expedition commanded by Magellan and Elcano are the first to Circumnavigate the Earth. 1519-1521: Hernán Cortés leads the Spanish conquest of the Aztec Empire. Ferdinand Magellan led the first expedition that circumnavigated the globe in 1519-1522. 1520-1566: The reign of Suleiman the
Magnificent marks the zenith of the Ottoman Empire. 1520: The first European diplomatic mission to Ethiopia, sent by the Portuguese, arrives at Massawa 9 April, and reaches the imperial encampment of Emperor Dawit II in Shewa 9 October. 1520: Vijayanagara Empire forces under Krishnadevaraya defeat the Adil Shahi under at the Battle of Raichur
1520: Sultan Ali Mughayat Shah of Aceh begins an expansionist campaign capturing Daya on the west Sumatran coast (in present-day Indonesia), and the pepper and gold producing lands on the eastern side of Solor (in present-day Indonesia) as a transit
harbour between Maluku and Malacca. 1521: Belgrade (in present-day Serbia) is captured by the Ottoman Empire. 1521: After building fortifications at Tuen Mun, the Portuguese attempt to invade Ming dynasty China, but are expelled by Chinese naval forces. 1521: Philippines encountered by Ferdinand Magellan. He was later killed in the Battle of
Mactan in central Philippines in the same year. 1521: Jiajing Emperor ascended the throne of Ming dynasty, China. 1521: November, Ferdinand Magellan's expedition reaches Maluku (in present-day Malaysia)
 against the Portuguese occupation. Pati Unus was killed in this battle, and was succeeded by his brother, sultan Trenggana. 1522: Rhodes falls to the Ottomans of Suleiman the Magnificent.[11]Sack of Rome of 1527 by Charles V's forces (painting by Johannes Lingelbach) 1522: The Portuguese ally themselves with the rulers of Ternate (in present-day
Indonesia) and begin construction of a fort.[9] 1522: August, Luso-Sundanese Treaty signed between Portugal and Sunda Kingdom granted Portuguese permit to build fortress in Sunda Kelapa. 1523: Sweden gains independence from the Kalmar Union. 1523: The Cacao bean is introduced to Spain by Hernán Cortés 1524-1525: German Peasants' War in
the Holy Roman Empire. 1524: Giovanni da Verrazzano is the first European to explore the Atlantic coast of North America between South Carolina and Newfoundland. 1524: Ismail I, the founder of Safavid dynasty, dies and Tahmasp I becomes king. Gun-wielding Ottoman Janissaries and defending Knights of Saint John at the siege of Rhodes in 1522,
from an Ottoman manuscript 1525: Timurid Empire forces under Babur defeat the Lodi dynasty at the First Battle of Panipat, end of the Delhi Sultanate. 1526: The Ottomans defeat the Kingdom of Hungary at the Battle of Mohács. 1526: Mughal
Empire, founded by Babur. 1527: Sack of Rome with Pope Clement VII escaping and the Swiss Guards defending the Vatican being killed. The sack of the city of Rome considered the end of the Italian Renaissance. 1527: Protestant Reformation begins in Sweden. 1527: The last ruler of Majapahit falls from power. This state (located in present-day
 Indonesia) was finally extinguished at the hands of the Demak. A large number of courtiers, artisans, priests, and members of the royalty moved east to the island of Bali; however, the power and the seat of government transferred to Demak under the leadership of Pangeran, later Sultan Fatah. 1527: June 22, The Javanese Prince Fatahillah of the Cirebon
Sultanate successfully defeated the Portuguese armed forces at the site of the Sunda Kelapa Harbor. The city was then renamed Jayakarta, meaning "a glorious victory." This eventful day came to be acknowledged as Jakarta's Founding Anniversary. 1527: Mughal Empire forces defeat the Rajput led by Rana Sanga of Mewar at the Battle of Khanwa 1529.
The Austrians defeat the Ottoman Empire at the siege of Vienna. 1529: Treaty of Zaragoza defined the antimeridian of Tordesillas attributing the Moluccas to Portugal and Philippines to Spain. 1529: Imam Ahmad Gurey defeats the Ethiopian Emperor Dawit II in the Battle of Shimbra Kure, the opening clash of the Ethiopian-Adal War. Spanish
conquistadors with their Tlaxcallan allies fighting against the Otomies of Metztitlan in present-day Mexico, a 16th-century codex 1531-1532: The Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church of England breaks away from the Catholic Church and recognizes King Henry VIII as the head of the Church and recognizes King Henry VIII as the head of the Church and recognized the head of the Church and recognized the head of the head of the Church and recognized the head of the
Francisco Pizarro leads the Spanish conquest of the Inca Empire. 1532: Foundation of São Vicente, the first permanent Portuguese settlement in the Americas. 1533: Anne Boleyn becomes Queen of England. 1533: Elizabeth Tudor is born. 1534: Jacques Cartier claims Canada for France. 1534: The Ottomans capture Baghdad from the Safavids. 1534:
Affair of the Placards, where King Francis I becomes more active in repression of French Protestants. 1535: The Münster Rebellion, an attempt of radical, millennialist, Anabaptists to establish a theocracy, ends in bloodshed. 1535: The Portuguese in Ternate depose Sultan Tabariji (or Tabarija) and send him to Portuguese Goa where he converts to
Christianity and bequeaths his Portuguese godfather Jordao de Freitas the island of Ambon.[12] Hairun becomes the next sultan. 1536: Catherine of Aragon dies in Kimbolton Castle, in England, Anne Boleyn is beheaded for adultery and treason. 1536
Establishment of the Inquisition in Portugal. 1536: Foundation of Buenos Aires (in present-day Argentina) by Pedro de Mendoza. 1537: William Tyndale's partial translation of the Bible into English is published, which would eventually be incorporated into the King James Bible
1538: Gonzalo Jiménez de Quesada founds Bogotá. 1538: Spanish-Venetian fleet is defeated by the Ottoman Turks at the Battle of Preveza. 1539: Hernando de Soto explores inland North America. Nicolaus Copernicus 1540: The Society of Jesus, or the Jesuits, is founded by Ignatius of Loyola and six companions with the approval of Pope Paul III. 1540:
Sher Shah Suri founds the Suri dynasty in South Asia, an ethnic Pashtun (Pathan) of the house of Sur, who supplanted the Mughal dynasty as rulers of North India during the reign of the relatively ineffectual second Mughal emperor Humayun. Sher Shah Suri decisively defeats Humayun in the Battle of Bilgram (May 17, 1540). 1541: Pedro de Valdivia
founds Santiago in Chile. 1541: An Algerian military campaign by Charles V of Spain (Habsburg) is unsuccessful. 1541: Amazon River is encountered and explored by Francisco de Orellana. 1541: Sahib I Giray of Crimea invades Russia. 1542: The Italian War
of 1542-1546 War resumes between Francis I of France and Emperor Charles V. This time Henry VIII is allied with the French. 1542: Akbar The Great is born in the Rajput Umarkot Fort 1542: Spanish explorer Ruy López de Villalobos named the island of Samar and Leyte Las
Islas Filipinas honoring Philip II of Spain and became the official name of the archipelago. 1543: Ethiopian/Portuguese troops defeat the Adal army led by Imam Ahmad Gurey at the Battle of Wayna Daga; Imam Ahmad Gurey is killed at this battle. 1543: Copernicus publishes his theory that the Earth and the other planets revolve around the Sun 1543:
The Nanban trade period begins after Portuguese traders make contact with Japan. 1544: The French defeat an Imperial-Spanish army at the Battle of the Shirts in Scotland. The Frasers and Macdonalds of Clan Ranald fight over a disputed chiefship; reportedly, 5 Frasers and 8
Macdonalds survive. 1545: Songhai forces sack the Malian capital of Niani 1545: The Council of Trent meets for the first time in Trent (in northern Italy). 1546: Michelangelo Buonarroti is made chief architect of St. Peter's Basilica. 1546: Francis Xavier works among the peoples of Ambon, Ternate and Morotai (Moro) laying the foundations for a
permanent mission. (to 1547) 1547: Henry VIII dies in the Palace of Whitehall on 28 January at the age of 52. 1547: Edward VI becomes King of England and Ireland on 28 January and is crowned on 20 February at the age of 9. 1547: Emperor Charles V decisively
dismantles the Schmalkaldic League at the Battle of Mühlberg. 1547: Grand Prince Ivan the Terrible is crowned tsar of (All) Russia, thenceforth becoming the first time on the battlefield in Japan, and Takeda Shingen is defeated by Murakami Yoshikiyo. 1548: Askia Daoud, who
reigned from 1548 to 1583, establishes public libraries in Timbuktu (in present-day Mali). 1548: The Ming dynasty government of China issues a decree banning all foreign trade and closes down all seaports along the coast; these Hai jin laws came during the Wokou wars with Japanese pirates. 1549: Tomé de Sousa establishes Salvador in Bahia, north-
east of Brazil. 1549: Arya Penangsang with the support of his teacher, Sunan Kudus, avenges the death of Raden Kikin by sending an envoy named Rangkud to kill Sunan Prawoto by Keris Kyai Satan Kober (in present-day Indonesia). The Islamic gunpowder empires: Mughal Army artillerymen during the reign of Jalaluddin Akbar 1550: The architect
Mimar Sinan builds the Süleymaniye Mosque in Istanbul. 1550: Mongols led by Altan Khan invade China and besiege Beijing. 1550-1551: Valladolid debate concerning the human rights of the Indigenous people of the Americas. 1551: Fifth outbreak of sweating sickness in England. John Caius of Shrewsbury writes the first full contemporary account of
the symptoms of the disease. 1551: North African pirates enslave the entire population of the Maltese island Gozo, between 5,000 and 6,000, sending them to Libya. 1552: Russia conquers the Khanate of Kazan in central Asia. 1552: Jesuit China Mission, Francis Xavier dies. 1553: Mary Tudor becomes the first queen regnant of England and restores the
Church of England under Papal authority. 1553: The Portuguese found a settlement at Macau. 1554: Princess Elizabeth is imprisoned in the Tower of London upon the orders of Mary I for suspicion of being involved in the Wyatt rebellion. 1555: The
Muscovy Company is the first major English joint stock trading company. 1556: Publication in Venice of Delle Navigiationi et Viaggi (terzo volume) by Giovanni Battista Ramusio, secretary of Council of Ten, with plan La Terra de Hochelaga, an illustration of the Hochelaga. [13] 1556: The Shaanxi earthquake in China is history's deadliest known
earthquake during the Ming dynasty. 1556: Georgius Agricola, the "Father of Mineralogy", publishes his De re metallica. 1556: Akbar defeats Hemu at the Second battle of Panipat. 1556: Russia conquers the Astrakhan Khanate. 1556-1605: During his reign, Akbar expands the Mughal Empire in a series of conquests (in the Indian subcontinent). Political
map of the world in 1556 1556: Mir Chakar Khan Rind captures Delhi with Humayun. 1556: Pomponio Algerio, radical theologian, is executed by boiling in oil as part of the Roman Inquisition. 1557; Habsburg Spain declares bankruptcy. Philip II of Spain had to declare four state bankruptcies in 1557, 1560, 1575 and 1596. 1557: The Portuguese settle in
Macau (on the western side of the Pearl River Delta across from present-day Hong Kong). 1557: The Ottomans capture Massawa, all but isolating Ethiopia from the rest of the world. 1558: Elizabeth Tudor becomes Oueen E
between Poland, Grand Principality of Lithuania, Sweden, Denmark and Russia. 1558: After 200 years, the Kingdom of England loses Calais to France. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambrésis, the Italian Wars conclude. 1559: With the Peace of Cateau Cambr
between Ternate and the Portuguese. The Mughal Emperor Akbar shoots the Rajput warrior Jaimal during the Siege of Chittorgarh in 1567 1560: By winning the Battle of Okehazama, Oda Nobunaga becomes one of the pre-
eminent warlords of Japan. 1560: Jeanne d'Albret declares Calvinism the official religion of Navarre. 1560: Lazarus Church, Macau 1561: Sir Francis Bacon is born in London. 1561: Guido de Bres draws up the Belgic Confession of Protestant faith
1562: Mughal emperor Akbar reconciles the Muslim and Hindu factions by marrying into the powerful Rajput Hindu caste. 1562-1598: French Wars of Religion. 1562: Portuguese Dominican priests build a palm-trunk fortress which Javanese
Muslims burned down the following year. The fort was rebuilt from more durable materials and the Dominicans commenced the Christianisation of the disease, 1564: Galileo Galil
William Shakespeare baptized 26 April 1565: Deccan sultanates defeat the Vijayanagara Empire at the Battle of Talikota. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Estácio de Sá establishes Rio de Janeiro in Brazil. 1565: The Hospitallers, a Crusading Order, defeat the Ottoman Empire at the Siege of Malta (1565). 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Estácio de Sá establishes Rio de Janeiro in Brazil. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Estácio de Sá establishes Rio de Janeiro in Brazil. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rind dies at aged 97. 1565: Mir Chakar Khan Rin
establishes in Cebu the first Spanish settlement in the Philippines starting a period of Spanish colonization that would last over three hundred years, 1565; Spanish navigator Andres de Urdaneta discovers the maritime route from Asia to the Americas across the Pacific Ocean, also known as the tornaviale, 1565; Royal Exchange is founded by Thomas
Gresham. 1566: Suleiman the Magnificent, ruler of the Ottoman Empire, dies on September 7, during the battle of Szigetvar. Siege of Valenciennes during the Dutch War of Independence in 1567 1566-1648: Eighty Years' War between Spain and the Netherlands. 1566: Da le Balle Contrade d'Oriente, composed by Cipriano de Rore. 1567: After 45 years'
reign, Jiajing Emperor died in the Forbidden City, Longqing Emperor ascended the throne of Ming dynasty. 1567: Mary, Queen of Scots, is imprisoned by Elizabeth I. 1568: The Transylvanian Diet, under the patronage of the prince John Sigismund Zápolya, the former king of Hungary, inspired by the teachings of Ferenc Dávid, the founder of the
Unitarian Church of Transylvania, promulgates the Edict of Torda, the first law of freedom of religion and of conscience in the World. 1568-1571: Morisco Revolt in Spain. 1568-1600: The Azuchi-Momoyama period in Japan. 1568: Hadiwijaya sent his adopted son and son in-law Sutawijaya, who would later become the first ruler of the Mataram dynasty of
Indonesia, to kill Arya Penangsang. 1569: Rising of the North in England. 1569: Recator 1569 world map published by Gerardus Mercator. 1569: The Polish-Lithuanian Commonwealth is created with the Union of Lublin which lasts until 1795. 1569: Peace treaty signed by Sultan Hairun of Ternate and Governor Lopez De Mesquita of Portugal. The
Battle of Lepanto 1570: Ivan the Terrible, tsar of Russia, orders the massacre of inhabitants of Novgorod. 1570: Pope Pius V issues Regnans in Excelsis, a papal bull excommunicating all who obeyed Elizabeth I and calling on all Catholics to rebel against her. 1570: Sultan Hairun of Ternate (in present-day Indonesia) is killed by the Portuguese. [12]
Babullah becomes the next Sultan. 1570: 20,000 inhabitants of Nicosia in Cyprus were massacred and every church, public building, and palace was looted. Cyprus fell to the Ottoman Turks, responding to the fall of Cyprus to the Ottomans.
1571: The Spanish-led Holy League navy destroys the Ottoman Empire navy at the Battle of Lepanto. 1571: Crimean Tatars attack and sack Moscow, burning everything but the Kremlin. 1571: American Indians kill Spanish missionaries in what would later be Jamestown, Virginia. 1571: Spanish conquistador Miguel López de Legazpi establishes Manila
Philippines as the capital of the Spanish East Indies. 1572: Brielle is taken from Habsburg Spain by Protestant Watergeuzen in the Eighty Years' War. 1572: Spanish conquistadores apprehend the last Inca leader Tupak Amaru at Vilcabamba, Peru, and execute him in Cuzco. 1572: Jeanne d'Albret dies aged 43 and is succeeded by
Henry of Navarre. 1572: Catherine de' Medici instigates the St. Bartholomew's Day massacre which takes the lives of Protestant leader Gaspard de Coligny and thousands of Huguenots. The violence spreads from Paris to other cities and the countryside. 1572: First edition of the epic The Lusiads of Luís Vaz de Camões, three years after the author
returned from the East. [14] 1572: The 9 years old Taizi, Zhu Yijun ascended the throne of Ming dynasty, known as Wanli Emperor. 1573: After heavy losses on both sides the siege of Haarlem ends in a Spanish victory. St. Bartholomew's Day massacre of French Protestants 1574: in the Eighty Years' War the capital of Zeeland, Middelburg declares for the
Protestants. 1574: After a siege of 4 months the siege of Leiden ends in a comprehensive Dutch rebel victory. 1575: Oda Nobunaga finally captures Nagashima fortress. 1576: Tahmasp I, Safavid shah, dies. 1576: The Battle of Haldighati is fought between the
ruler of Mewar, Maharana Pratap and the Mughal Empire's forces under Emperor Akbar led by Raja Man Singh. 1576: Sack of Antwerp by badly paid Spanish soldiers. 1577-1580: Francis Drake circles the world. 1577: Ki Ageng Pemanahan built his palace in Pasargede or Kotagede. 1578: King Sebastian of Portugal is killed at the Battle of Alcazarquivir.
1578: The Portuguese establish a fort on Tidore but the main centre for Portuguese activities in Maluku becomes Ambon.[12] 1578: Sonam Gyatso is conferred the title of Dalai Lama by Tumed Mongol ruler, Altan Khan. Recognised as the reincarnation of two previous Lamas, Sonam Gyatso becomes the third Dalai Lama in the lineage.[15] 1578:
Governor-General Francisco de Sande officially declared war against Brunei in 1578, starting the Castilian War of 1578. The Union of Arras unifies the southern Netherlands, a foundation for the later states of the Spanish Netherlands, the
Austrian Netherlands and Belgium. The Irish Gaelic chieftain's feast, from The
Spanish Armada 1580: Drake's royal reception after his attacks on Spanish possessions influences Philip II. The struggle for the throne of Portugal ends the Portuguese Empire. The Spanish and Portuguese crowns
are united for 60 years, i.e. until 1640. 1580-1587: Nagasaki comes under control of the Jesuits. 1581: Dutch Act of Abjuration, declaring abjuring allegiance to Philip II of Spain. 1580-1587: Nagasaki comes under control of the Jesuits. 1581: Bayinnaung dies at the age of 65. 1582: Oda Nobunaga commits seppuku during the Honnō-ji Incident coup by his general, Akechi Mitsuhide. 1582: Pope Gregory XIII
issues the Gregorian calendar. The last day of the Julian calendar was Thursday, 4 October 1582 and this was followed by the first day of the Stroganovs. 1583: Denmark builds the world's first theme park, Bakken. 1583: Death of
Sultan Babullah of Ternate. 1584-1585: After the siege of Antwerp, many of its merchants flee to Amsterdam. According to Luc-Normand Tellier, "At its peak, between 1510 and 1557, Antwerp concentrated about 40% of the world trade...It is estimated that the port of Antwerp was earning the Spanish crown seven times more revenues than the
Americas."[17] 1584: Ki Ageng Pemanahan died. Sultan Pajang raised Sutawijaya, son of Ki Ageng Pemanahan as the new ruler in Mataram, titled "Loring Ngabehi Market" (because of his home in the market). 1585: Akbar annexes Kashmir and adds it to the Kabul SubahPortuguese fusta in India from a book by Jan Huygen van Linschoten
1585: Colony at Roanoke founded in North America. 1587-1604: The Anglo-Spanish War is fought on both sides of the Atlantic. 1587: Mary, Queen of Scots is executed by Elizabeth I. 1587: Troops that would invade Pajang Mataram Sultanate storm ravaged the eruption of Mount Merapi
Sutawijaya and his men survived. 1588: Mataram into the kingdom with Sutawijaya as Sultan, titled "Senapati Ingalaga Sayidin Panatagama" means the warlord and cleric Manager Religious Life. 1588: England repulses the Spain repulses the English Armada. 1589: Catherine de' Medici dies at aged 69. Abu'l-Fazl ibn Mubarak
presenting Akbarnama to Mughal Azam Akbar, Mughal miniature 1590: Siege of Odawara: the Go-Hojo clan surrender to Toyotomi Hideyoshi, and Japan is unified. 1591: Gazi Giray leads a huge Tatar expedition against Moscow. 1591: In Mali, Moroccan forces of the Sultan Ahmad al-Mansur led by Judar Pasha defeat the Songhai Empire at the Battle of
Tondibi. 1592-1593: John Stow reports 10,675 plague deaths in London, a city of approximately 200,000 people. 1592-1598: Korea, with the help of Ming dynasty China, repels two Japanese invasions. 1594: St. Paul's College, Macau, founded by Alessandro Valignano.
1595: First Dutch expedition to Indonesia sets sail for the East Indies with two hundred and forty-nine men and sixty-four cannons led by Cornelis de Houtman's expedition reaches Banten the main pepper port of West Java where they clash with both the Portuguese and Indonesians. It then
sails east along the north coast of Java losing twelve crew to a Javanese attack at Sidayu and killing a local ruler in Madura. [18] 1597: Romeo and Juliet is published. 1597: Cornelis de Houtman's expedition returns to the Netherlands with enough spices to make a considerable profit. [18] 1598: The Edict of Nantes ends the French Wars of Religion. 1598:
Abbas I moves Safavids capital from Qazvin to Isfahan in 1598. 1598-1613: Russia descends into anarchy during the Time of Troubles. 1598: More Dutch fleets leave for Indonesia and most are profitable. [18] Edo period screen depicting the Battle of
Sekigahara 1598: The province of Santa Fe de Nuevo México is established in Northern New Spain. The region would later become a territory of Mexico, the New Mexico Territory in the United States, and the US State of New Mexico Territory in the United States, and the US State of New Mexico.
Jenné. 1599: The van Neck expedition returns to Europe. The expedition makes a 400 per cent profit. [18] (to 1600) 1599: March, Leaving Europe the previous year, a fleet of eight ships under Jacob van Neck was the first Dutch fleet to reach the 'Spice Islands' of Maluku. [18] 1600: Giordano Bruno is burned at the stake for heresy in Rome. Siege of
Fil'akovo castle during the Long Turkish War 1600: Battle of Sekigahara in Japan. End of the Warring States period and beginning of the Edo period. 1600: The Portuguese win a major naval battle in the bay of Ambon.[19] Later in the year, the Dutch would have
the sole right to purchase spices from Hitu.[19] 1600: Elizabeth I grants a charter to the British East India Company beginning the English advance in Asia. 1600: Michael the Brave unifies the three principalities: Wallachia, Moldavia and Transylvania after the Battle of Şelimbăr from 1599. For later events, see Timeline of the 17th century. Polybius' The
Histories translated into Italian, English, German and French.[20] Mississippian culture disappears. Medallion rug, variant Star Ushak style, Anatolia (modern Turkey), is made. It is now kept at the Saint Louis Art Museum. Hernan Cortes (1485-1547) Henry VIII, (1491-1547) King of England and Ireland Don Fernando Álvarez de Toledo (1507-1582)
Suleiman the Magnificent, Sultan of the Ottoman Empire (1520-1566) Ivan IV the Terrible (1530-1584) Oda Nobunaga (1534-1582) Sir Francis Drake (c. 1540 - 1596) Alberico Gentili, (1552-1608) the Father of international law Philip II of Spain, King of Spain (1556-1598) Akbar the Great, Mughal emperor (1556-1605) Related article: List of 16th
century inventions. The Columbian Exchange introduces many plants, animals and diseases to the Old and New Worlds. Introduced into the English alphabet. 1500: First portable watch is created by Peter Henlein of Germany. The Iberian Union in 1598, under
Philip II, King of Spain and Portugal 1513: Juan Ponce de León sights Florida and Vasco Núñez de Balboa sights the eastern edge of the Pacific Ocean. 1519-1522: Ferdinand Magellan and Juan Sebastián Elcano lead the first circumnavigation of the world. 1519-1540: In America, Hernando de Soto expeditions map the Gulf of Mexico coastline and bays.
1525: Modern square root symbol (\sqrt{)} 1540: Francisco Vásquez de Coronado sights the Grand Canyon. 1541-42: Francisco de Orellana sails the length of the Amazon River. 1542-43: Firearms are introduced into Japan by the Portuguese. 1543: Copernicus publishes his theory that the Earth and the other planets revolve around the Sun 1545: Theory of
complex numbers is first developed by Gerolamo Cardano of Italy. 1558: Camera obscura is first used in Europe by Giambattista della Porta of Italy. 1559-1562: Spanish settlers outside New Spain (Mexico) colonize Florida's coastline
at St. Augustine. 1565: Invention of the graphite pencil (in a wooden holder) by Conrad Gesner. Modernized in 1812. 1568: Gerardus Mercator creates the first Mercator projection map. 1572: Supernova SN 1572 is observed by Tycho Brahe in the Milky Way. 1582: Gregorian calendar is introduced in Europe by Pope Gregory XIII and adopted by Catholic
countries. c. 1583: Galileo Galilei of Pisa, Italy identifies the constant swing of a pendulum, leading to development of reliable timekeepers. 1585: earliest known reference to the 'sailing carriage' in China. 1589: William Lee invents the stocking frame. 1591: First flush toilet is introduced by Sir John Harrington of England, the design published under the
title 'The Metamorphosis of Ajax'. 1593: Galileo Galilei invents a thermometer. 1596: William Barents discovers Spitsbergen. 1597: Opera in Florence by Jacopo Peri. Entertainment in the 16th century ^ a b Modern reference works on the period tend to follow the introduction of the Gregorian calendar for the sake of clarity; thus NASA's lunar eclipse
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