

CHAPTER 6 MEDIEVAL EUROPE

CROSSWORD PUZZLE ANSWERS THE EARLY MIDDLE AGES

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Was the early Middle Ages 500-1000 CE a dark age for western Europe? The dark ages occurred from 500 CE to 1000 CE in Western Europe. It began with the fall of the Roman Empire and ended with the start of the Renaissance.

Which institution in western Europe had the most power during the Middle Ages? After the fall of Rome, no single state or government united the people who lived on the European continent. Instead, the Catholic Church became the most powerful institution of the medieval period.

What was the most important early trading city in Italy? Situated in the heart of a lagoon on the coast of northeast Italy, Venice was a major power in the medieval and early modern world, and a key city in the development of trade routes from the east to Europe.

When were medieval times? The medieval era, often called The Middle Ages or the Dark Ages, began around 476 A.D. following a great loss of power throughout Europe by the Roman Emperor. The Middle Ages span roughly 1,000 years, ending between 1400 and 1450.

Why is the period from 500 to 800 frequently called Europe's dark age? The Dark Ages is a term for the Early Middle Ages (c. 5th–10th centuries), or occasionally the entire Middle Ages (c. 5th–15th centuries), in Western Europe after the fall of the Western Roman Empire, which characterises it as marked by economic, intellectual, and cultural decline.

Why was Europe a dark age? The 'Dark Ages' were between the 5th and 14th centuries, lasting 900 years. The timeline falls between the fall of the Roman Empire and the Renaissance. It has been called the 'Dark Ages' because many suggest that this period saw little scientific and cultural advancement.

What was the position and role of the Catholic Church during medieval Europe? The Church was important to medieval life because it offered protection during hard times. For example, the Church was the only dependable institution after the fall of the Roman Empire. The Church also provided spiritual guidance to the people.

What ended the Middle Ages? There is no universally-agreed-upon end date; the most frequently-used dates include 1453 (the fall of Constantinople), 1492 (Christopher Columbus's first voyage to the Americas), and 1517 (the beginning of the Protestant Reformation).

Why is it called the Middle Ages? The period is called the "Middle Ages" because it took place between the fall of Rome and the rise of early modern Europe, and it is often separated into the Early Middle Ages, the High Middle Ages, and the Late Middle Ages. People also use other names like the "Medieval Age" to describe the Middle Ages.

What was the Middle Ages in Western Europe? The Middle Ages was the period in European history from the collapse of Roman civilization in the 5th century CE to the period of the Renaissance (variously interpreted as beginning in the 13th, 14th, or 15th century, depending on the region of Europe and other factors).

Was the time period between 400 CE and 1400 CE a dark age for Europe? The Medieval Times for Europe, from the 400 AD till 1400 AD, are often labeled as "The Dark Ages". This time period has begun after a turning point known as Fall of Rome. It caused Rome to divide into two well-known civilizations: Medieval Europe, Islam, and The Byzantine Empire.

What is the difference between the Dark Ages and the Middle Ages and medieval times? When people use the terms Medieval Times, Middle Ages, and Dark Ages they are generally referring to the same period of time. The Dark Ages is

usually referring to the first half of the Middle Ages from 500 to 1000 AD. After the fall of the Roman Empire, a lot of the Roman culture and knowledge was lost.

What was the Dark Ages 500 AD to 1000 AD? AD 500 - 1000 The loss of knowledge, the lack of written history, and the general barbarity of the time has led some people, for dramatic effect, to refer to this period in Europe as the Dark Ages. Historians generally refer to it as the Early Middle Ages or Early Medieval period.

What is the vibration level as per ISO 10816? Unrestricted operation: this assumes a motor/pump that has been in operation beyond the original start-up. An acceptable vibration level would be less than 0.16 in/sec (pk) or 2.8 mm/sec (rms).

What is the ISO standard for mechanical vibration? ISO 10816-21 specifies the measurement and evaluation of mechanical vibration of wind turbines and their components by taking measurements on non-rotating parts.

What is the difference between ISO 10816-3 and ISO 10816-7? ISO 10816-3 refers to industrial machines with a rated capacity of more than 15 kW and rated speeds between 120 rpm and 15000 rpm, measured on site. ISO 10816-7 refers to centrifugal pumps for industrial application.

What is the vibration spec for ISO? An acceptable vibration level would be below 0.16 in/sec (pk) or 2.8 mm/sec (rms).

What is ISO 10816 6 classification? The norm ISO 10816-6[1] classifies the vibration of the machinery in seven levels. The standard does not indicate how to classify the machinery that is being measured. It only indicates that as an example many industrial and marine Diesel engines are classified 5, 6 and 7.

What is the safe vibration level? The exposure limit value (ELV) is the maximum amount of vibration an employee may be exposed to on any single day. For hand-arm vibration the ELV is a daily exposure of 5 m/s² A(8).

How do you measure mechanical vibration? An accelerometer or ceramic piezoelectric sensor is commonly used to measure vibration. Most accelerometers rely on the use of the piezoelectric effect, which occurs when a voltage is generated across certain types of crystals as they are stressed.

What is the difference between ISO 7919 and ISO 10816? Historically, ISO 7919 focused on the measurement and evaluation of mechanical vibrations on rotating shafts, while ISO 10816 provided guidelines for vibration assessment directly on machinery bodies.

What is the allowable vibration limit for buildings? For continuous long term vibration, 10 mm/s peak vibration velocity is seen as a safe limit for structural integrity in industrial buildings.

What is ISO 10816 3 2009 en mechanical vibration? ISO 10816-3:2009 gives criteria for assessing vibration measurements when made in situ. The criteria specified apply to machine sets having a power above 15 kW and operating speeds between 120 r/min and 15 000 r/min.

What is the vibration limit as per ISO 10816 standards velocity in mm sec RMS? ... to vibration severity standards ISO 10816 shown in Table 1, the satisfactory/acceptable vibration level in Class I machines is in the range 1.12 to 1.80 mm/sec (RMS). The unsatisfactory level (monitor closely) of vibration is in the range 2.80 to 4.5 mm/sec (RMS). ...

What are the different type of vibration analysis? The three most common parameters used to measure and analyze vibration are acceleration, speed, and displacement. Acceleration is the most sensitive parameter to changes in the condition of a machine. It's often the best parameter to use for early detection of problems.

What is the latest ISO standard for vibration? ISO 20816-3:2022 Mechanical vibration — Measurement and evaluation of machine vibrationPart 3: Industrial machinery with a power rating above 15 kW and operating speeds between 120 r/min and 30 000 r/min.

What are the 3 important parameters used to measure vibration? The three main parameters measured to evaluate the vibration characteristics of a piece of equipment are acceleration, displacement, and velocity.

How do you measure severity of vibration? Comparing the most recent reading to earlier readings for the same measurement Point, which allows you to observe how

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the Point's vibration values are “trending” over time, is the most effective and dependable way to assess vibration severity.

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What is the threshold value for vibration? Vibration detection thresholds are dependent on stimulation frequency because they are mediated by different sensory receptors. According to the human psychophysical tuning curve, thresholds lie between ~20 nm to ~45 μm^5 .

What is the vibration limit for API? API 610 states that vibration levels must be less than 3mm/s for horizontal pumps and less than 5mm/s for vertical pumps within the Preferred operating region and that this can increase by 30% when moving outside the Preferred operating region.

What is the allowable vibration limit for buildings? For continuous long term vibration, 10 mm/s peak vibration velocity is seen as a safe limit for structural integrity in industrial buildings.

What programming language does Lego EV3 use? Program in Python with EV3
You can now use your EV3 Brick to unleash the power of Python programming using MicroPython. Simply install the EV3 MicroPython image onto any micro SD card and boot up your EV3 Brick from it to start programming straight away.

Is EV3 discontinued? FLL has allowed for older versions to be used, and most likely won't stop that any time soon. They still allow NXT and RCX. LEGO discontinued EV3 in June 2021, so the only Mindstorms branded LEGO product at the moment is Robot Inventor which is the retail version of the Spike Prime (Spike Prime being the edu version).

Can you program Lego Mindstorms EV3? Students can program their LEGO MINDSTORMS Education EV3 with the MakeCode platform which communicates with the EV3 Brick via USB cable and offers both block and text editors to support

learners at different coding proficiency levels.

How to connect EV3 Brick with bluetooth?

Can you code EV3 with Java? LEGO® Mindstorms® EV3 can run the ARMv5 port of Java SE Embedded with just a few simple steps. This page will help point you to all the resources you need to get started! See a video of Java SE Embedded on LEGO® Mindstorms® EV3. Guide on how to run Java on Lego EV3 via leJOS wiki (not affiliated with LEGO® or Oracle).

Can I program EV3 with Scratch? In order to use Lego Mindstorms EV3 with Scratch you must install and run Scratch Link, turn on bluetooth in your computer and in EV3 Brick and load EV3 extension in Scratch. Using Lego EV3 with scratch is quite limited, but sufficient to do simple exercises.

What will replace Lego EV3? SPIKE Prime replaced MINDSTORMS EV3 and builds on the skills developed with MINDSTORMS EV3 and offers a more complex coding system using Icon Blocks, Word Blocks and Python coding. The SPIKE Prime hub comes with an improved 6x6 display matrix and 6 ports to connect sensors and motors.

How long will EV3 be supported? After retirement LEGO Education will continue to support the current apps but no new content or features will be developed for the product after retirement. For how long will LEGO Education support the EV3 Apps? LEGO Education will continue to support the current apps for two years from Exit date.

Why is Lego stopping Mindstorms? The company explained in a statement published by Brickset that it now has "a number of priorities in Lego Education and other Build & Code experiences," and that, "we have decided to focus our resources and future plans by redirecting our Mindstorms Robot Inventor team and expertise into different areas of the ...

Is Lego EV3 software free? The software for your new LEGO® MINDSTORMS® EV3 is free and easy to download!

Can you program EV3 with an iPad? You can now go back to the EV3 Programming app. The app will automatically target the EV3 Brick you just
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connected, if this EV3 Brick is the only one connected to your iPad.

Can you program EV3 with C++? The EV3 runs on Linux w/ glibc, so you only need to upload your C programs. For C++ you need to copy over the C++ standard library. Programming like that is a bit inconvenient, as you have to mess directly with the device files. The c4ev3 bundle streamlines this.

Does EV3 have WIFI? Connect the EV3 Brick to your computer by USB Cable or wirelessly using either Bluetooth or Wi-Fi. **USB CABLE** Using the USB Cable, plug the Mini-USB end into the EV3 Brick's PC port (located next to Port D). Plug the USB end into your computer.

What is the USB port on EV3 for? **PC Port** The Mini-USB PC Port, located next to the D port, is used to connect the EV3 Brick to a computer. **Output Ports** Output Ports A, B, C, and D are used to connect motors to the EV3 Brick. To turn on the EV3 Brick, press the Center button.

Can you transfer the programs from an EV3 Brick to a computer? You can use the Memory Browser to transfer programs, sounds, graphics and other files between your EV3 Brick and a computer, and copy and delete files that are already on your EV3 Brick.

What is the best programming language for EV3? If you are new to programming and unsure which language to choose, Python is a great choice! If you are just starting programming ev3dev, take a look at ev3python.com by @ndward. The site is intended to help users of the LEGO MINDSTORMS EV3 to begin using the ev3dev Python programming language to control their robot.

What coding language does Lego use?

Can you program EV3 with JavaScript? the Language. Write code for your EV3 robot using a simple text based language: JavaScript. Dozens of example programs are provided to teach basic JavaScript programming techniques. Drag-and-drop code from the lists of examples into the editing window.

Is EV3 being retired? The LEGO MINDSTORMS EV3 Programmer app will be removed from current app stores at the end of June 2021. The retired LEGO MINDSTORMS EV3 Home Edition software for Mac and PC (Labview) can be found
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further down. Please notice this software is no longer supported by the LEGO Group.

Is EV3 worth it? I bought this for my robotics class and it is perfect for what I need it for. I've had lots of EV3 robots throughout the years and this one performed just as I had expected. You can choose several different programming languages but we use the mind storms app that comes with it on the chrome books.

What software is used to program the Lego Mindstorms? Use the EV3 Programming tool to build a program for your robot and bring it to life.

Why is Lego getting rid of Mindstorms? The press release cites "... a number of priorities in LEGO Education and other Build & Code experiences, we have decided to focus our resources and future plans by redirecting our MINDSTORMS Robot Inventor team and their expertise into different areas of the business. " What could these priorities be?

What does Lego EV3 stand for? The "EV" designation refers to the "evolution" of the Mindstorms product line. "3" refers to the fact that it is the third generation of computer modules - first was the RCX and the second is the NXT. It was officially announced on January 4, 2013, and was released in stores on September 1, 2013.

Is Spike Prime better than EV3? LEGO® Education SPIKE™ Prime Set is particularly well-suited for remote control enthusiasts, featuring extension modules that support various controllers. LEGO® MINDSTORMS® Education EV3 Core Set, while a robust option, may be better suited for those who relish intricate mechanical structures.

How much is EV3 in the US? Kia's just given Americans an EV to get jazzed about actually buying: the \$35,000 EV3 crossover. The new model, which Kia said will hit the U.S. after 2025, is welcome news for car shoppers who'd love to go electric but aren't comfortable dropping \$40,000 or \$50,000, which has been the going rate for a competitive EV.

How much RAM does EV3 have? 1.40 GHz Intel® Celeron® 2955U dual-core processor – or equivalent or better. 4 GB RAM. 3 GB available storage space.

What OS does EV3 use? ev3dev is a Debian Linux-based operating system that runs on several LEGO® MINDSTORMS compatible platforms including the LEGO®
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MINDSTORMS EV3 and Raspberry Pi-powered BrickPi.

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Is EV3 programmable? Lego Mindstorms EV3 is a set that lets you build and program five starter robot models. A programmable power brick, plus servo motors and color, touch, and infrared sensors, help the robot move and communicate.

Is C better than C++ for robotics? In general, C is used if a robotics device has memory limitations and C++ is used to program devices without any memory limitations.

How do I run a code on EV3? Clicking "Download and Run" Once you have created a program and are ready to try it out, click the button on the bottom right corner of the LEGO EV3 Programming environment. Clicking this button will automatically download and run the program in the simulated environment, it will just take a couple of seconds to work!

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What language does Lego EV3 use? LEGO Education also provides a version of Python, a line-by-line programming language, for the Mindstorms EV3.

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How much does an EV3 cost? The price of the 2026 Kia EV3 is expected to start around \$30,000 and go up to \$42,000 depending on the trim and options.

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What is meant by Full Catastrophe Living? He's alluding to the fact that a rich life is woven from great happiness and great disasters, as well as small pleasures and

minor irritations. And you can't close yourself off to life's irritations and disasters without also closing yourself off to its joys.

Who originated the idea of Full Catastrophe Living? Full Catastrophe Living grew out of the work of the University of Massachusetts Medical Center's Stress Reduction Clinic, founded in 1979 by Jon Kabat-Zinn.

Who said the full catastrophe? Origin. The phrase appears in the 1964 film *Zorba the Greek*, where it is spoken by the character Zorba (played by Anthony Quinn), a colorful Greek with a zest for life.

Who came up with the catastrophe theory? Catastrophe theory originated with the work of the French mathematician René Thom in the 1960s, and became very popular due to the efforts of Christopher Zeeman in the 1970s.

What is the meaning of the Greek word Zorba? Zorba is about experiencing life, being an active and willing participant in this great gift called life, for good or ill. Even if you have experienced “the full catastrophe” (as Zorba describes having a wife, house, children) you must take life's good moments and bad, in stride.

[*iso 10816 7 2009 mechanical vibration evaluation of, lego robot programming instructions ev3 robotic arm, full catastrophe living*](#)

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