

CHAPTER 24 STUDYING THE SUN

ANSWER KEY

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Which of the following is the best answer to the question why does the Sun?

Which of the following is the best answer to the question, "Why does the Sun shine?"

As the Sun was forming, gravitational contraction increased the Sun's temperature until the core became hot enough for nuclear fusion, which ever since has generated the heat that makes the Sun shine.

Why is an understanding of light important to astronomers? Astronomers use light and the different wavelengths or colors at which it radiates to uncover the mysteries of the universe. Each point, or pixel, in an astronomical image may represent temperature, a wavelength of light, or the intensity of the signal. Each color brings into view an otherwise invisible universe.

Are dark regions on the surface of the photosphere? Surrounded by glowing plasma, sunspots are planet-sized dark areas on the surface of the Sun. Granulation, appearing similar to bubbles, is due to convection currents in the solar interior. Close-up views of the photosphere also show patterns of light areas surrounded by darker borders, called granulation.

What uses wire mesh as a reflector to collect radiation from space? In summary, a radio telescope uses wire mesh as a reflector to collect radiation from space and is specifically designed to detect and study radio waves.

What is the Sun question answer? The Sun is the star at the center of the Solar System. It is a nearly perfect sphere of hot plasma, with an internal convective motion that generates a magnetic field via a dynamo process. It is by far the most important source of energy for life on Earth.

Why is the Sun important answer? It radiates light and heat, or solar energy, which makes it possible for life to exist on Earth. Plants need sunlight to grow. Animals, including humans, need plants for food and the oxygen they produce.

Why can't we see color in space? In space or on the Moon there is no atmosphere to scatter light. The light from the sun travels a straight line without scattering and all the colors stay together. Looking toward the sun we thus see a brilliant white light while looking away we would see only the darkness of empty space.

Why can humans only see visible light? WAVELENGTHS OF VISIBLE LIGHT
Cone-shaped cells in our eyes act as receivers tuned to the wavelengths in this narrow band of the spectrum. Other portions of the spectrum have wavelengths too large or too small and energetic for the biological limitations of our perception.

Why does the Sun's image look distorted in shape at sunset? Why does the Sun's image look distorted in shape at sunset? The distortion arises because of the way air affects the paths of light. The distortion is an artifact of the photographic process that your eyes would not actually see. Air scatters different colors of light by different amounts.

What is the coolest part of the Sun? The Photosphere has a thickness of about 500 KM, and all the visible light from the Sun comes from this layer. With temperature coming down to approximately 5500 degrees Celsius, it is said to be the coolest part of the Sun because with an increase in height, the temperature drops.

What two elements make up the Sun? The Sun contains about 92% hydrogen and 8% helium, with just a tiny bit of the other common elements we find on Earth.

What part of the Sun gives off light? The light we see from the Sun comes from the very hot temperatures of its surface, or photosphere. Although astronomers classify our Sun as a yellow dwarf star, its surface is visible to our eyes as white light, from the combination of all the colors in the visible part of the spectrum.

What does NASA use to block radiation? Such shielding could include the metal shell of a spacecraft or habitation module, an insulating layer of lunar water, or both. The composition and thickness of a material affects its ability to shield radiation.

What protects us from space radiation? Earth's magnetic shield protects us from the cosmic radiation and is strongest at the equator and weakest near the poles. The magnetic shield diverts most of the radiation around the earth.

What is the best reflector of sunlight on Earth? Snow and ice can reflect 50- 90% of incoming sunlight. As the Earth's average temperature rises, snow and ice cover decreases, increasing the amount sunlight being absorbed, further contributing to global warming.

Does the Sun also rotate? Yes, the Sun does spin, or rotate. Because it is a gas, it does not rotate like a solid. The Sun actually spins faster at its equator than at its poles. The Sun rotates once every 24 days at its equator, but only once every 35 near its poles.

What keeps the Sun spinning? For rotational motion, the law is called the Law of Conservation of Angular Momentum. This law is why the sun keeps spinning. Since there is effectively zero friction in space and because there is nothing grabbing the sun, there is nothing stopping the sun.

What color is the Sun? How could you determine what color the Sun is as seen from Earth? It is a common misconception that the Sun is yellow, or orange or even red. However, the Sun is essentially all colors mixed together, which appear to our eyes as white. This is easy to see in pictures taken from space.

Can life go on without heat? No. Your body needs heat for the processes of life to continue... and your body includes a heating system to help with this (which is why you are an endotherm). Thus, if this internal heating system stops, you will die. The question could refer to an external heating system.

Why is life possible on Earth? What makes the Earth habitable? It is the right distance from the Sun, it is protected from harmful solar radiation by its magnetic field, it is kept warm by an insulating atmosphere, and it has the right chemical ingredients for life, including water and carbon.

What are the three types of energy from the Sun? Sun is the powerhouse of energies. It provides us with heat energy, light energy and solar energy. Also, solar energy is a renewable source of energy.

Which of the following is the best reason why the Sun is the brightest star in the sky? Though sun is not the biggest or brightest star, it appears so because it is the nearest star from us. Since the distance is very less, it appears bigger and brighter. As the distance of other stars from us increases, their brightness and size appears to be less.

Which is the best answer to describe the Sun? Our Sun is a 4.5 billion-year-old yellow dwarf star – a hot glowing ball of hydrogen and helium – at the center of our solar system.

Which of the following best explains why the Sun's luminosity gradually rises over billions of years? Fusion gradually decreases the number of independent particles in the core, allowing gravity to compress and heat the core, which in turn increases the fusion rate and the Sun's luminosity.

Why is the Sun at the start of every food chain What does the Sun provide?
Answer and Explanation: All food chains begin with the sun because the sun provides the energy which primary producers use to create biomass. This energy is supplied in the form of light and the light is absorbed by primary producers and used to perform photosynthesis.

Why won't my Kubota 3 cylinder diesel crank? Defective or dirty battery cables are the problem more often than you might think. Use a cleaning tool to remove dirt and grime from the battery posts and the cable ends. Carefully clean connections or replace cables as necessary.

How do I identify a Kubota diesel engine? All engines will have the serial number tag at the top of the valve cover. The engine model, serial number, engine part number and the bar code are all found on the sticker on top of the valve cover.

Is the Kubota D1105 a good engine? Renowned for its exceptional reliability and long service life.

How many hours does a Kubota diesel engine last? Kubota warranties its industrial engines for 2 years or 2,000 hours, whichever occurs first; major engine components are warrantied for 3 years or 3000 hours. Again, whichever occurs first. However, with proper maintenance, your Kubota diesel engine could last up to

10,000 hours.

What is the possible cause of starting failure of diesel engine? Your Diesel Engine is Having Trouble Starting When the components in the combustion chamber wear down, the engine cannot achieve the necessary compression. These components include the piston, rings, valves, cylinder liners, etc. The starting problems will be much worse in cold and hot weather when this is the cause.

Why is my diesel engine cranking but not turning over? Restricted airflow due to debris or dirt clogging can be a potential cause of cranking without starting. Engine: Checking the engine itself for the proper functioning of the block heater, coolant, and engine oil is an easy method for identifying potential problems.

Are Kubota diesel engines good? Kubota Advantage: Higher reliability and uptime. Reduced maintenance. No risk of catastrophic damage to valves due to timing belt failure. Designed to run reliably in tough industrial applications.

Who makes Kubota diesel engines? Kubota is a manufacturer of compact, multi-cylinder, liquid-cooled diesel engines up to 210 HP. Kubota Engine America Corporation (KEA) oversees the sale of engines, generators and service parts. In 1890, Kubota Corporation started its rich history of innovation and contribution to society in Osaka, Japan.

Can I use regular diesel in my Kubota tractor? Kubota recommends the use of diesel fuel that is refined to appropriate on-highway and off-highway standards. Kubota cannot be responsible for any fuel system component failures due to inappropriate fuel, incorrect lubricity or fuel additives used. Appropriate diesel fuel standards include ASTM D975 for lubricity.

Which engine is better Yanmar or Kubota? Yanmar diesel engines are air or water-cooled, while Kubota engines are liquid-cooled. According to a comparison article, Yanmar engines have slightly more power and a stronger loader, while Kubota tractors have a larger fuel capacity, engine horsepower, and PTO.

What is the difference between Kubota D1105 and D905? The Kubota D905 is a vertical, water-cooled, four cycle diesel engine with a capacity of 17.4HP at 3000RPM. The Kubota D1105 is a vertical, water-cooled, four cycle diesel engine

with a capacity of 21.7HP at 3000RPM.

What fuel does Kubota diesel recommend? Ultra Low Sulfur Diesel Fuel Cetane Rating: The minimum recommended fuel cetane rating is 45. A cetane rating greater than 50 is preferred, especially for ambient temperatures below -20 °C (-4 °F) or elevations above 1500 m (4921 ft.).

What is considered high hours on a diesel engine? As a rough guide the average lifespan of a diesel engine can vary from 5,000 hours to 20,000 hours, assuming it's maintained properly. In terms of mileage, that equates to 300,000 miles to 100,000 miles. Properly maintained, under standard working conditions, a diesel engine can last a long, long time!

Is 4000 hours a lot for a diesel engine? Marine diesel mechanics have told us that most marine diesels go bad after about 4,000 hours.

What is the longest lasting diesel engine?

What is the most common problem with diesel engines? The number one problem found in diesel engines is engine overheating. Engine overheating is caused when an engine is pushed too hard and can give rise to a whole host of negative side-effects. This is including, but not limited to: Damage to the bearings and crankshaft.

What to check when diesel engine does not start? Look for air in the fuel system: Air in the fuel system can prevent proper fuel delivery to the engine. Check for any air leaks in the fuel lines or connections. Bleed the fuel system to remove any trapped air. Check the starter motor: The starter motor is responsible for cranking the engine.

What are the symptoms of airlock in diesel fuel system? Airlocks occur when air enters your fuel system and keeps the diesel fuel from reaching the injectors. Unable to pass fuel through the bubble stuck in your system, typical symptoms include difficulty starting the engine, reduced engine power after starting, and, in severe cases, the inability to start the engine.

Why is my diesel tractor getting fuel but won't start? If your tractor cranks, but won't start, you'll want to look at a few different engine components. Is the fuel

making it to the cylinder? Check the fuel level, the shutoff valve, and the fuel filter. If those components look ok, air might not be making it to the cylinder.

How do you diagnose a diesel engine problem? Diagnosing engine performance problems often involves conducting compression tests to assess cylinder health and examining exhaust gases for anomalies. Inspecting the turbocharger for damage and checking for air intake restrictions are also essential steps.

When a diesel engine fails to start after 30 seconds of cranking what is the recommended cool down period before cranking the engine again? Never run the starter for more than a 30-second stretch, and if it does run that long, then wait at least two minutes between cranks to allow the starter to cool.

Why is my diesel tractor cranking but not starting? If your tractor cranks, but won't start, you'll want to look at a few different engine components. Is the fuel making it to the cylinder? Check the fuel level, the shutoff valve, and the fuel filter. If those components look ok, air might not be making it to the cylinder.

Why is my diesel generator cranking but not starting? Some common reasons for this problem include air in the fuel system, a faulty fuel pump, a clogged fuel filter, low compression in the engine, or problems with the electrical system.

How do you diagnose a diesel no start? Check the fuel gauge or visually inspect the fuel level. If the fuel level is low, fill up the tank with fresh diesel fuel. Check the battery: Ensure that the battery is fully charged and the terminals are clean and securely connected. A weak or dead battery can prevent the engine from starting.

How do you find the top dead center on a 3-cylinder diesel engine?

How do you diagnose a diesel engine problem? Diagnosing engine performance problems often involves conducting compression tests to assess cylinder health and examining exhaust gases for anomalies. Inspecting the turbocharger for damage and checking for air intake restrictions are also essential steps.

Why is my diesel engine hard to start when warm? Reasons: Difficult start of the warmed diesel engine as opposed to the easy cold start can be caused by the high pressure fuel pump malfunction connected with the plunger pair wear.

How do I know if my diesel starter is bad? Common Signs of a Bad Starter The engine won't turn over. The most common signal that your starter has a problem is if nothing happens when you turn the key or push to start. Unusual noises, such as clinking, grinding and whirring. If you ignore these sounds, it can eventually lead to damage to the engine flywheel.

Why is my engine cranking but not starting? If the car cranks when you turn the key, but the engine won't start, it could be because fuel isn't getting to the engine. One potential reason for this could be dirty fuel injectors. Over time, the fuel injector nozzles can become clogged with rust, corrosion or debris.

Why is my diesel generator running but not producing power? Poor Connections. If your generator runs but no power is generated, consider fixing poor connections via the unit's ports. Clean particles, debris, or blockages before plugging devices in to test that the power is flowing correctly.

What is the cause of starting motor running but not cranking? 1 Start motor engages but the engine doesn't turn The simplest cause of this sort of fault is a loose or corroded electrical connection. If there is a fault with the internal windings of the starter motor, bad brushes, or other electrical faults, the starter motor may lack the torque to crank the engine.

How do you tell if a diesel engine is locked up?

How cold before diesel won't start? What temp is too cold for a diesel engine? At a temperature of 15 degrees Fahrenheit or -9.5 degrees Celsius, the diesel fuel in your fuel tank will solidify, and you will have difficulty starting your engine.

Why can't you start a diesel right away? A gas engine starts when the spark plug ignites the fuel, whereas diesel engines rely on heat created by compression. During cold snaps, diesel fuel sometimes needs help from an external heat source, and there are three ways to make that happen: Using an Intake Heater. Using the Glow Plugs.

How to tell if engine is at TDC on compression stroke? If it's TDC at end of the compression stroke, both valves should be closed. If it's TDC at end of exhaust stroke, you should be in the valve overlap zone, with the intake valve partially open

and on its way to opening fully, and the exhaust valve partially open on its way to closing.

How to tell when cylinder 1 is at TDC? Place your thumb over the spark plug hole. As the engine rotates, the piston will rise inside cylinder one and you'll be able to feel the increase in pressure. Take your thumb and insert it into the hole the spark plug came out of so you'll be able to feel the change in pressure within the cylinder.

How to find TDC on a diesel engine without? There are often marks 'indicating TDC' for the #1 cylinder' on the flywheel or front crankshaft pulley, that are utilized for indexing the injector pump (check the manufacturer's service manual). TDC can also be detected by removing the #1 fuel injector and using a stiff wire or small rod to contact the piston.

What is mentalization based treatment of BPD? Instead of offering skills, insights, or explanations, MBT therapists encourage patients to think through hyperactivated or deactivated emotional states themselves. The point of these therapeutic interactions is for each person to reflect on the point of view of others alongside their own point of view.

What is the most promising treatment for borderline personality disorder? Dialectical behavior therapy (DBT) One study even found that 77% of people with BPD no longer met diagnostic criteria after just one year of DBT treatment. DBT is taught as a series of skills to help people manage uncomfortable thoughts, feelings, and behaviors.

How effective is mentalization-based therapy? Clinical trials have shown that mentalisation-based therapy is an effective treatment for borderline personality disorder, with symptom improvement sustained years after the end of treatment.

Under the Greenwood Tree: A Pastoral Masterpiece by Thomas Hardy

Question 1: What is the setting of "Under the Greenwood Tree"? Answer: The novel is set in the fictional village of Mellstock, based on Hardy's childhood home in Dorset, England. It captures the idyllic beauty of the countryside in the mid-19th century.

Question 2: Who is the main protagonist of the novel? **Answer:** Dick Dewy, a young schoolteacher, is the central figure. He arrives in Mellstock to take up his teaching position and becomes entangled in the village's social and romantic lives.

Question 3: What is the main theme explored in "Under the Greenwood Tree"? **Answer:** Hardy explores themes of love, marriage, and the clash between tradition and modernity. Dick's relationship with his beloved, Fancy Day, highlights the tension between personal happiness and social expectations.

Question 4: What is the significance of the title "Under the Greenwood Tree"? **Answer:** The title alludes to the song "Under the Greenwood Tree" from Shakespeare's "As You Like It." It reflects the pastoral setting and the joyful spirit of the novel while hints at the underlying social complexities and conflicts.

Question 5: How is Thomas Hardy's use of language notable in "Under the Greenwood Tree"? **Answer:** Hardy employs rich and vivid language, particularly in his descriptions of the countryside. He creates a sense of intimacy and realism, drawing the reader into the world and characters of Mellstock. His use of dialect and local idioms adds depth and authenticity to the novel.

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