

CHAPTER 29 STUDY ANSWERS

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What are cooler areas on the surface of the photosphere that appear darker?

Sunspots are dark, planet-size regions of strong magnetic fields on the surface of the sun. They can spawn eruptive disturbances such as solar flares and coronal mass ejections (CMEs). These regions of the sun appear darker because they are cooler than their surroundings.

Which food source is important to a bird that is a predator? All diurnal birds of prey eat some type of animal flesh, including reptiles, insects, fish, birds, mammals, molluscs, and carrion. Groups of birds favor certain foods. Most Old and New World vultures prefer to eat carrion.

How one feature of the skeletal system of the bird is adapted for flight? Hollow bones are also called pneumatized bones, meaning they're filled with space for air. It is thought that this structure helps with oxygen intake during flight. Air sacs are attached to the hollow areas in a bird's bones. Essentially, their lungs extend throughout their bones.

In what different positions can a stationary belt sander be used? Belt sanders can be found in upright, vertical, and horizontal positions. When using a belt sander in an upright or vertical position, the work should be supported on a table.

What are dark cooler areas on the Sun's surface called _____? Sunspots are areas that appear dark on the surface of the Sun. They appear dark because they are cooler than other parts of the Sun's surface.

What appear dark because compared with the photosphere around them they are cooler? Sunspots appear dark because they are cooler than their surroundings. Large sunspots are thousands of degrees cooler than the areas that surround them

(about 4,200 °C for a sunspot compared to 6,000 °C for the photosphere surrounding it).

Have greatly reduced wings and are flightless.? Flightless birds, such as the ostrich, rhea and an extinct bird called a moa, have proportionally smaller or missing wing bones than a related bird, the tinamou, which can fly. Flightless birds have a sternum (lower bone in chest), but no keel bone where flight muscles attach.

How the bird can crush the food it eats if it has no teeth? As detailed in the textbook Ornithology by Frank B. Gill, birds must instead rely on the muscular stomach-like pouch called the gizzard to crush down their food. Many species swallow stones and grit to aid in digestion. These stones remain in the gizzard and crush the food as the gizzard contracts.

Is the bird a predator? Birds of prey are apex predators and play an important ecological role in maintaining the environmental health of their natural habitats. Their hunting habits remove old, sick, and weak animals from prey populations and help keep their numbers under control.

How do the shape and the body covering adapt the bird to flight? The body of a bird is compact, dorsally strong and ventrally heavy to maintain equilibrium in the air. Their wings are attached on the thorax, the light organs like lungs and sacs are positioned high, the heavy muscles placed centrally are other features that help in flight.

What makes a bird's bone structure special in order to help flight? The reduction in a bird's skeletal weight is largely a result of hollow construction of the skeleton. The fusion or loss of individual bones reduces the number of movable joints in the bird's skeleton, making it rigid and better adapted as the internal framework of a flying machine.

How does the wing structure play a role in a bird's ability to fly? The shape of a bird's wing is important for producing lift. The increased speed over a curved, larger wing area creates a longer path of air. This means the air is moving more quickly over the top surface of the wing, reducing air pressure on the top of the wing and creating lift.

In which direction must the belt rotate on the portable belt sander?

What is a correct safety principle when sanding on the horizontal belt sander?

On the horizontal belt sander, always sand, so that the belt motion is away from you. Do not operate machines with torn or ripped belts or disks. Do not sand any material that will give off a dangerous dust. Such materials as beryllium or copper beryllium alloys must not be sanded or filed.

What personal protective equipment should be worn when using the belt sander? What should you do to work safely with belt sanders? Wear safety glasses or goggles, or a face shield (with safety glasses or goggles). Wear a dust respirator for dusty operations. Make sure the sander is switched "OFF" before connecting the power supply.

What is a star that explodes temporarily increasing its brightness 100000 times or more? A supernova (pl. : supernovae or supernovas) is a powerful and luminous explosion of a star.

What causes sunspots, flares, and prominences? Solar flares occur when magnetic energy builds up in the solar atmosphere and is released suddenly. These outbursts are intrinsically linked to the solar cycle — an approximately 11-year cycle of solar activity driven by the sun's magnetic field.

What is a huge reddish loop of gas that protrudes from the Sun's surface linking parts of sunspot regions? Scientists are still researching how and why prominences are formed. The red-glowing looped material is plasma, a hot gas comprised of electrically charged hydrogen and helium. The prominence plasma flows along a tangled and twisted structure of magnetic fields generated by the sun's internal dynamo.

What is the term for loops or sheets of glowing gas ejected from active regions on the solar surface? Figure 16.22 shows two solar prominences—loops or sheets of glowing gas ejected from an active region on the solar surface, moving through the inner parts of the corona under the influence of the Sun's magnetic field.

What are sunspots Why are they darker than the surrounding photosphere? Sunspots are dark, planet-size regions of strong magnetic fields on the surface of the

sun. They can spawn eruptive disturbances such as solar flares and coronal mass ejections (CMEs). These regions of the sun appear darker because they are cooler than their surroundings.

What are the violent eruptions of particles and radiation from the surface of the Sun called? Solar flares are giant explosions on the sun that send energy, light and high speed particles into space. These flares are often associated with solar magnetic storms known as coronal mass ejections (CMEs).

What bird can't fly? Flightless birds have, through evolution, lost the ability to fly. There are over 60 extant species, including the well-known ratites (ostriches, emus, cassowaries, rheas, and kiwis) and penguins. The smallest flightless bird is the Inaccessible Island rail (length 12.5 cm, weight 34.7 g).

Why can't ostriches and penguins fly? To dive deep, to catch fast-swimming prey, and to survive frigid temperatures, their bodies have huge fat supplies, heavy muscles, and densely packed feathers. There's no way they could fly with such short wings and heavy bodies.

How does a bird chew up its food if it has no teeth? Birds don't have teeth. They can't chew up food. Birds will eat rocks/ pebbles that grind up the food in their stomach.

How do birds eat if they don't have teeth? Birds swallow their food whole, and their gizzard (a muscular part of their stomach) grinds up the food so they can digest it. Gizzards can be amazingly powerful—some birds such as scaup and eiders swallow clams and mussels whole, letting their gizzards pulverize the shells.

What is a cooler dark area of the photosphere? Sunspots—a dark area of the photosphere of the sun that is cooler than the surrounding areas and that has a strong magnetic field. The movements of gases within the sun's convective zone and the movements caused by the sun's rotation produce magnetic fields.

What are the cooler regions on the photosphere? The cooler areas on the surface of the sun are called sunspots. They are seen as black spots on the surface of the sun and are relatively low-temperature regions in comparison with the brighter and hotter regions of the photosphere around them.

What is the dark area on the photosphere? Sunspots initially appear in the photosphere as small darkened spots lacking a penumbra. These structures are known as solar pores. Over time, these pores increase in size and move towards one another.

What are dark spots on the surface of the photosphere? Sunspots are temporary phenomena on the sun's photosphere that appear as spots darker than the surrounding areas.

What are cooler darker areas of gas within the photosphere called? The dark spots that appear on the surface of the sun are called sunspots. The sunspots are regions in the photosphere that have lower temperatures as compared to the surrounding areas. The reduced temperature is caused by the flux of the magnetic field that reduces convection.

What is a cool region on the photosphere called? There is some variation in temperature from place to place within the photosphere – for example, sunspots are relatively “cool” regions with temperatures as low as 3,000 °C (5,400 °F).

What areas in the photosphere are cooler compared to its other parts? Sunspots are cooler regions on the photosphere. Since they are 1000--1500 K cooler than the rest of the photosphere, they do not emit as much light and appear darker. They can last a few days to a few months.

What is the average year after year weather patterns in a given area? Climate represents the average of many years' worth of weather conditions. This averaging process evens out the blips caused by droughts, flood, tornadoes and hurricanes, and blizzards and downpours, but at the same time emphasizing the more typical patterns of rainfall and temperature highs and lows.

What is cooler areas on the surface of the photosphere that appear darker than the surrounding areas on the sun? Sunspots: They look like dark holes in the Sun, but they are actually areas that are slightly cooler than the surrounding photosphere. Sunspots are created where bits of the Sun's magnetic field poke out from the interior into the Sun's atmosphere.

What is a sudden violent explosion on the sun called? Solar flares are giant explosions on the sun that send energy, light and high speed particles into space.

Do stars have surfaces? Stars, except neutron stars, have no solid or liquid surface. Therefore, the photosphere is typically used to describe the Sun's or another star's visual surface.

What is a star that explodes temporarily increasing its brightness 100000 times or more? A supernova (pl. : supernovae or supernovas) is a powerful and luminous explosion of a star.

What is formed by gas flowing outward at a high speed from the Sun's corona? The sun's corona It appears as white streamers or plumes of ionized gas that flow outward into space. Temperatures in the sun's corona can get as high as 3.5 million degrees F (2 million degrees C). As the gases cool, they become the solar wind.

Does solar maximum affect climate? However, though the effects of solar variability on the climate are not noticeable to most of us, they are detectable by dedicated scientists. Careful measurements suggest that solar activity does in fact warm the Earth by about a tenth of a degree (0.1° C) during solar maximum relative to solar minimum.

What is solar wind in simple words? The solar wind is a flow of particles that comes off the sun at about one million miles per hour and travels throughout the entire solar system.

What are massive solar storms that emit energy called? A solar flare is a tremendous explosion on the Sun that happens when energy stored in 'twisted' magnetic fields (usually above sunspots) is suddenly released.

Solved MCQs: Essential Study Material for NTS, PPSC, and SPSC Preparation

Paragraph 1: Mastering multiple-choice questions (MCQs) is crucial for success in competitive examinations like the National Testing Service (NTS), Punjab Public Service Commission (PPSC), and Sindh Public Service Commission (SPSC). Solved MCQs notes provide a comprehensive bank of previously asked questions along

with their correct answers, enabling candidates to enhance their knowledge and sharpen their problem-solving skills.

Paragraph 2: These notes cover a vast array of topics relevant to the aforementioned examinations, including general knowledge, current affairs, analytical reasoning, quantitative aptitude, and subject-specific disciplines. By studying solved MCQs, candidates gain invaluable insights into the types of questions they can expect on the actual test, allowing them to allocate their study time effectively.

Paragraph 3: Furthermore, solved MCQs notes serve as a self-assessment tool. By attempting these questions and comparing their responses with the provided answers, candidates can identify their strengths and weaknesses. This enables them to focus their efforts on areas that require improvement, thereby maximizing their chances of scoring well in the examination.

Paragraph 4: Question: Which of the following is the capital of Pakistan? Answer: Islamabad

Paragraph 5: Question: What is the square root of 64? Answer: 8

By incorporating solved MCQs notes into their preparation strategy, candidates can significantly increase their chances of success in NTS, PPSC, and SPSC examinations. These notes provide a structured and time-saving approach to mastering essential concepts and honing test-taking abilities.

Does a vibration machine burn belly fat? The researchers found seven studies with a total of 280 participants suitable for analysis. They found that whole-body vibration led to a significant amount of fat loss but didn't cause a significant change in body fat percentage in studies shorter than 6 months long.

How do you use a power plate vibration machine?

What speed is best for a vibration machine? In general you'll get the best benefits using your massager at about 50 Hz, while anything from 40-60 will be pretty good. Most machines give their speed as per minute so that is about 2,400-3,600 rpm, with the ideal about 3,000 rpm.

How to use a vibration machine for weight loss? With whole-body vibration, you stand, sit or lie on a machine with a vibrating platform. As the machine vibrates, it transmits energy to your body, forcing your muscles to contract and relax dozens of times each second. The activity may cause you to feel as if you're exerting yourself.

What do 10 minutes on a vibration plate do? Just 10-15 minutes per day showed great results in not only preventing bone loss, but also strengthening and regaining bone mass density, relieving osteoarthritis, and even improving posture control and gait in postmenopausal women and older patients.

Do vibration plates work if you just stand on them? You can sit, stand, or work out on a vibrating plate. These vibrations usually happen 20-60 times each second. These cause your muscles to contract and relax over and over. The amount of energy your body burns depends on the frequency and intensity of the vibrations.

What are the negatives of vibration plates?

How many minutes a day should you use a vibration plate? It's a more comfortable and less strenuous alternative to traditional resistance training, but moderation is still vital to ensure your safety and maximize your results. Remember these three guidelines: Daily Use: Limit your daily use of the vibration plate to 30 minutes.

Can you use a vibration plate too much? However, standing on a vibration platform for more than twenty minutes every other day is not the best thing for other tissues in your body, such as the cartilage found in your knee and hip joints or the retina in the back of your eyes and several other organs, which may be damaged by excessive vibration.

How long does it take to see results from a vibration machine? How Long Does It Take To See Results From a Vibration Plate? Like any workout, it's going to take two weeks to two months before you start to see some results. However, it also depends on other factors like your diet and lifestyle habits.

When should you not use a vibration plate? Any current or recent blood clots (acute thrombosis conditions) • If you have a pacemaker • If you are pregnant • If you suffer with dizziness or inner ear problems Also if you have advanced osteoporosis

with several spinal fractures, have had joint replacements such as hip or knee or if you have significant ...

Does a vibration plate help with inflammation? "In as little as five minutes, you can benefit from helpful relief ." On the inside, however, vibration cells gently work to reduce pain and inflammation caused by arthritis, swelling or other issues.

Can vibration reduce belly fat? Even if vibration exercise does lead to weight loss — which no studies have shown — there's no way to spot reduce just one area of the body. The idea that you can selectively decrease fat on your stomach, or anywhere else, is a myth, according to the American Council on Exercise.

How do I tone my stomach on a vibration plate? Start by resting your forearms or hands on the vibration plate and have your feet supported on the ground. Maintaining a straight line from head to toe, pull your abs in tight and hold that position for 30 seconds or more, depending on your level of comfort and intensity desired.

What are the side effects of vibration massagers?

Is a vibration plate better than walking? A daily dose of whole body vibration—like time on a treadmill—reduces body fat and insulin resistance and improves muscle and bone strength in a mouse model of morbid obesity and diabetes, researchers report.

What happens if you vibrate for too long? Whole-body vibration can cause fatigue, stomach problems, headache, loss of balance and "shakiness" shortly after or during exposure. The symptoms are similar to those that many people experience after a long car or boat trip.

Has anyone lost weight using a vibration plate? Research on Vibration Plate Weight Loss Another study by the European Journal of Obesity found that whole-body vibration training can reduce visceral adipose tissue—a hormonally active component of total body fat—more than aerobic exercise in obese adults.

Does vibration break up fat cells? Recent studies on mice show that whole-body vibration training can mimic many of the metabolic effects of more rigorous exercise, particularly treadmill workouts. Daily sessions of whole-body vibration or treadmill

workouts for three months led to shrunken fat cells, reduced weight, and decreased insulin resistance.

Does vibration tighten skin? Over time, vibration therapy can help skin appear firmer and more contoured. You'll look like the best possible version of yourself. The best part - you can perform vibration therapy on yourself at home every day.

What is the best speed on a vibration plate for weight loss? The best Settings on the Vibration Machines for Weight Loss While exercising, the pulse rate should generally be at 60 - 70% in the first few weeks. Within a few weeks of undertaking a routine of 3 workouts per week of 30 minutes each, the intensity can be increased to the optimal fat burning.

Can shaking belly reduce belly fat? You're actually burning calories, using energy, losing fat, building muscle. Shaking products are just jiggling fat. There's no exertion or effort from you at all. You might notice a smoother appearance in cellulite, but no weight loss or muscle tone.

Can you break up fat with vibration? Vibration does not burn fat (the most important component of cellulite), it merely disrupts the fat tissue. Any fatty acids released from the cellulite fat tissue will still have to be oxidised (i.e. burned) in your body, otherwise they will simply be re-deposited in fat tissue, including cellulite fat tissue.

How do I tone my stomach on a vibration plate? Start by resting your forearms or hands on the vibration plate and have your feet supported on the ground. Maintaining a straight line from head to toe, pull your abs in tight and hold that position for 30 seconds or more, depending on your level of comfort and intensity desired.

Is vibration good for stomach? Abdominal massage and whole-body vibration therapy have been shown to help improve symptoms in patients with severe constipation. Abdominal vibration stimulation has been reported to increase motility of the gastrointestinal (GI) tract, to reduce colon transit time, and to reduce constipation in older patients.

Is it possible to design and build your own car? Building a custom car can definitely be done. If you have spent time learning how to tune your own car already, then there is a chance that you already know some of the aspects of designing a car, and if you have studied mechanics then you will have a good grounding in the world of car alterations.

Can you make your own car electric? This can be done by replacing the gasoline engine with an electric motor or fundamentally adding electric power systems to a car that was not originally built for electric power. It can be done on a wide variety of cars, but some cars are better suited for electric power than others.

How much does it cost to build an electric vehicle? Materials. According to AlixPartners, average raw materials costs for EVs totaled \$8,255 per vehicle as of May 2022, up from \$3,636 per vehicle in 2021 and \$1,875 on average per vehicle in 2020.

How to make an electric car project?

Is there an app where I can build my own car? 3D tuning App gives you the possibility to customize hundreds of cars, trucks and bikes in unprecedented photorealistic quality and detail. With our huge range of car parts, customization features and design options, you will easily create THE build that perfectly fits your style.

Is there a program to design cars? Hyper realistic 3D Car Design with Substance 3D The Adobe Substance 3D toolset integrates smoothly with popular car design software such as CATIA and Rhino 3D.

Is there a self generating electric car? If there is a way that an EV can feasibly charge itself in the future, you can bet someone is working on it today. But for now, unless it's referring to the small gains from regenerative braking or roof-mounted solar panels, the technology simply does not exist for EV self-charging...

How much does an EV conversion kit cost?

How can I make an electric car at home? To charge an electric car at home, you should have a home charging point installed where you park your electric car. You

can use an EVSE supply cable for a 3 pin plug socket as an occasional back up. Drivers usually choose a dedicated home charging point because it's faster and has built-in safety features.

Is a Tesla actually cheaper than gas? What is the yearly cost of driving a Tesla? If you calculate the average of all Tesla models, it costs \$614.95 to charge per year. Comparable gas-powered cars cost an average of \$1,850.42 to fuel per year. So, Teslas cost approximately \$1,235 less to drive each year than gas vehicles.

Will electric cars be cheaper in 2025? According to several industry estimates, EVs will become cheaper to own than gas cars sometime between 2025 and 2026.

Is it cheaper to build electric or gas cars? The initial cost of a gas car is typically a lot lower than an electric car. This is due to the higher materials and labor costs associated with building an electric car.

What is the best motor for electric cars? PMSM is the most widely used motor in electric vehicles due to its high power density, high efficiency, and absence of torque ripple resulting in less noise during operation. Because of the absence of torque ripples, it is even used in four wheelers.

Can I turn my car into an EV? Although uncommon, a conventional vehicle can be converted to an all-electric vehicle, a plug-in hybrid electric vehicle (PHEV), or a hybrid electric vehicle (HEV). And an HEV can be converted to a PHEV or EV. Such conversions provide options beyond what is available from original equipment manufacturers (OEMs).

Are electric cars easy to build? In fact, setting aside the labor to build the powertrain, Boston Consulting estimates the final assembly stage of building – the part where components are brought together to make a final vehicle – actually takes somewhat more work for an electric vehicle than a gasoline-powered car.

Can I design my own vehicle? Yes, you can either build a kit car which normally supplies a body and chassis or you can build your own completely. Once completed it has to pass a construction and safety check by a government inspector. They check everything down to the smallest nut and bolt and it takes about 2 hours.

Is it legal to build your own car in us? If you do not register your car in the state where you live, your custom build will not be legal on public roads. That means it's illegal to drive it on any road, including freeways and highways.

Which software is used to make cars? SolidWorks. SolidWorks is a 3D CAD software that is widely used for designing and engineering automotive components and systems. It offers a wide range of tools for 3D modeling, analysis, and simulation, and is particularly useful for designing sheet metal parts and assemblies.

Is there an app where I can design a car? The Formacar mobile app brings the entire car world to your fingertips. Things you will find here include: - A 3D Car Configurator with no peers worldwide. A vast selection of car models and all kinds of tuning components lets you create your ultimate dream car.

What degree is needed to design cars? A bachelor's degree in fine arts, industrial design, or automotive design (often called transportation design) is recommended, although some employers accept diplomas from art schools. Training is offered through art schools, art departments of colleges and universities, and technical colleges.

Where do I start when designing a car?

How long does it take to design and build a car? The production engineers would also lay out the plan and schedule for completing different stages, from the bare frame to the finished car. It is important to note that most vehicle designs take about 3 to 5 years to move from the initial concept to the finished car.

Can you have a custom car made? Ordering a custom-built car allows you to choose precisely the combination of colors, packages, and features you want. The major drawback of ordering from the manufacturer is the wait time.

What job allows you to design cars? Automotive designers, also known as automotive stylists, are specialized industrial designers who combine their technical knowledge of mechanics, production, and materials with artistic talent to improve the style, appearance, and ergonomic and aerodynamic design of automobiles.

How much does it cost to make a prototype car? Although scale-model concept vehicles may cost less than \$100,000 to produce, the cost of developing a full-sized clay concept car for a major automaker is generally greater than \$100,000 and can be as high as \$300,000 or more, with much of this money going to pay the salaries of the highly skilled designers and ...

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