

Lect 4 Video 1: \_\_\_\_\_  
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Video 2: \_\_\_\_\_  
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Video 3 \_\_\_\_\_  
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Video 4: \_\_\_\_\_  
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Video 5: \_\_\_\_\_  
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Video 6: \_\_\_\_\_  
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Video 7 \_\_\_\_\_  
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Video 8: \_\_\_\_\_  
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Video 9 \_\_\_\_\_  
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Lect 5 Video 1: \_\_\_\_\_  
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Video 2: \_\_\_\_\_  
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Video 3 \_\_\_\_\_  
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Video 4: \_\_\_\_\_  
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Video 5: \_\_\_\_\_  
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Video 6: \_\_\_\_\_  
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Date: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Class: \_\_\_\_\_

Date: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Class: \_\_\_\_\_

- 1 What term best characterizes the sun?
- A Very old star
  - B Mid-sequence star
  - C Very young star
  - D Red giant
- 2  How many earths could fit inside the sun?
- A One hundred
  - B One thousand
  - C One million
  - D One billion
- 3 The Sun's radiation is responsible for earth's \_\_\_\_\_.
- A Temperature
  - B Magnetic field
  - C Rotation
  - D Atmosphere
- 4 Where can you find the photosphere?
- A At the surface of the sun
  - B In the earth's atmosphere
  - C Deep within the sun
  - D 1,000 km away from the sun
- 5  How much hotter is the core of the sun than its surface? Choose the best answer.
- A More than 100 times
  - B More than 1,000 times
  - C More than one million times
  - D More than one billion times

- 6 Which two elements make up the sun?
- A Carbon and nitrogen
  - B Hydrogen and oxygen
  - C Oxygen and carbon
  - D Hydrogen and helium
- 7 What can you infer about helium from the fact that it's made by nuclear fusion reactions inside the sun?
- A It's heavier than hydrogen
  - B It's lighter than hydrogen
  - C It's heavier than oxygen
  - D It's heavier than carbon
- 8 What is the relationship between the sun and life on earth?
- A The sun damages life on earth
  - B The sun powers life on earth
  - C The sun protects life on earth
  - D The sun causes plants to wither and die
- 9  What causes the seasons?
- A Changes in the sun's intensity
  - B The earth's changing distance from the sun
  - C The tilt of the earth on its axis
  - D The earth's rotation
- 10 What effect does the sun's electromagnetic field have?
- A It causes dark patches called sunspots
  - B It causes the sun to rotate
  - C It causes fusion reactions
  - D It causes the sun to shine

- 1  What are earth's three main layers?
- A Core, mantle, and surface
  - B Core, mantle, and crust
  - C Inner core, outer core, and mantle
  - D Upper mantle, lower mantle, and crust
- 2 What do earthquake waves have in common with other waves?
- A They travel at the same speed as light waves
  - B They carry the same amount of energy as sound waves
  - C They bend when they travel through different materials
  - D They have the same wavelength as radio waves
- 3 Where is the earth's crust the thickest?
- A 
  - B 
  - C 
  - D 
- 4 Which word best characterizes the lower mantle?
- A Scalding
  - B Cool
  - C Molten
  - D Lukewarm
- 5 How deep would you have to drill to reach the center of the earth?
- A About 60,000 kilometers
  - B About 600,000 kilometers
  - C About 600 kilometers
  - D About 6,000 kilometers

- 6 What effect does the spinning of the earth's core have?
- A It creates gravity
  - B It creates matter
  - C It creates mass
  - D It creates the earth's magnetic field
- 7 Which of the following statements about the Earth's inner core is true?
- A It's mostly made of iron
  - B It's mostly made of nickel
  - C It's mostly made of cadmium
  - D It's mostly made of magnesium
- 8 What is the only entirely liquid layer of the earth?
- A The upper mantle
  - B The outer core
  - C The inner core
  - D The lower mantle
- 9 Which of the following statements is an opinion about the mantle?
- A It makes up the bulk of the earth's mass
  - B Heat churns through it
  - C It contains iron, silicon, magnesium, and oxygen
  - D It is the most important layer of the earth
- 10 If the earth's mantle were completely solid, \_\_\_\_\_ plates could not move around.
- A Tectonic
  - B Technical
  - C Titanic
  - D Agnostic