


Date: \_\_\_\_\_

Name: \_\_\_\_\_

Class: \_\_\_\_\_


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Why does the moon appear to shine?

  - A Because it reflects sunlight
  - B Because it reflects light from Earth
  - C Because it makes its own light
  - D Because it reflects light from the stars
- How long does it take the moon to make a complete revolution around the earth?

  - A 365 days
  - B One day
  - C Seven days
  - D 27 days
- What might happen if sunlight didn't strike the moon at different angles?

  - A The tides would not exist
  - B We wouldn't be able to see the moon
  - C The moon would not go through phases
  - D There would be no eclipses
- What can you infer about the moon from the information presented in the movie?

  - A It is the closest heavenly body to the earth
  - B It is slightly closer than Mars, and slightly more distant than Venus
  - C It is farther away than a few of the planets
  - D It is slightly more distant than the sun
- 

What can you conclude about the dark patches on the moon's surface?

  - A They are high plateaus
  - B They are deep craters
  - C They are tall mountains
  - D They are sunken plains, or seas

- How did the moon form? Choose the best answer.

  - A A large chunk of rock got captured by earth's gravity
  - B A rogue planet smashed into the earth
  - C It formed out of the same material the earth did
  - D No one knows for sure
- If you weigh 100 kg on earth, approximately how much would you weigh on the moon?

  - A 100 kg
  - B 16 kg
  - C 160 kg
  - D 60 kg
- If you wanted to find iron and sulfur on the moon, where would you look?

  - A Inside the moon's craters
  - B In the maria, or seas
  - C Inside the moon's core
  - D On top of the moon's mountains
- What is the moon mostly made out of?

  - A Igneous rock
  - B Liquid magma
  - C Dried-out soil
  - D Sedimentary rock
- Which of the following is a true statement about the moon?

  - A It is the biggest moon in the solar system
  - B It is the biggest moon relative to the size of its mother planet
  - C Liquid water has been found there
  - D Humans first set foot there in 1973

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- The word "waxing" can replace the first word of which phrase?

  - A Cooling temperatures
  - B Dwindling salaries
  - C Increasing support
  - D Running out of time
- Which term describes the relationship between wax and wane?


  - A Synonyms
  - B Antonyms
  - C Homonyms
  - D Homophones
- Which hypothetical scenario would result in the moon not having different phases?

  - A The moon takes twice as long as it does now to orbit the earth
  - B Earth takes twice as long as it does now to orbit the sun
  - C Earth has two moons
  - D The moon always stays in one position relative to the earth and sun
- How much of the moon's bright side can you see during a new moon?

  - A 0 percent
  - B 10 percent
  - C 50 percent
  - D 100 percent
- Which of the following phenomena never affects the moon's phase?

  - A The moon's orbit around the earth
  - B The earth's orbit around the sun
  - C The earth's rotation on its axis
  - D The relative positions of the earth, moon, and sun
- What can you logically conclude about the relationship between full moons and lunar eclipses?

  - A A lunar eclipse never occurs during a full moon
  - B A lunar eclipse occurs during all full moons
  - C A lunar eclipse can only occur during a full moon
  - D A lunar eclipse is the same thing as a full moon
- Piloting a ship by moonlight is most difficult during which phase?

  - A First quarter moon
  - B Full moon
  - C Third quarter moon
  - D New moon
- 

Without any other information, which of these terms best describes the moon in this image?

  - A Crescent
  - B Waxing
  - C Gibbous
  - D Waning
- Place the following phases of the moon in the correct sequence: A) Waxing crescent; B) Waning gibbous; C) Third quarter moon

  - A A, B, C
  - B A, C, B
  - C C, A, B
  - D B, C, A
- How does the length of a lunar month compare to the average length of a month in a standard 365-day calendar?

  - A About one day longer
  - B About one day shorter
  - C About three days shorter
  - D The same




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1 What is the most common type of eclipse?

- A Total solar eclipse
- B Lunar eclipse
- C Partial solar eclipse
- D Sidereal eclipse

2  When does a lunar eclipse occur?

- A When the sun passes between the earth and the moon
- B When the moon passes between the earth and the sun
- C When the moon passes through the earth's shadow
- D When the sun passes through the moon's shadow

3 If you were outside during a total solar eclipse, what would it look like?

- A Like the sun was setting in the west
- B Like day had suddenly become night
- C Like the entire sky had turned red
- D Like the moon had disappeared entirely

4 What has to happen for a lunar eclipse to occur?

- A The sun and moon must be on opposite sides of the earth
- B The sun and moon must be on the same side of the earth
- C The moon must pass directly between the earth and the sun
- D The sun must pass directly between the earth and the moon

5 From the information presented in the movie, what can you infer about the solar corona?

- A It's located fairly close to the earth
- B It is the first part of the sun blocked out during an eclipse
- C It's located at the innermost portion of the sun
- D It's located at the outermost edge of the sun

6 The words "umbra," "penumbra," and "antumbra" all refer to what type of phenomenon?

- A A bright light
- B An alignment of the planets
- C A shadow
- D The rotation of the earth

7  When a solar eclipse happens, who can see it?

- A Anyone in the Northern Hemisphere
- B Anyone in the Southern Hemisphere
- C Anyone around the Equator
- D Anyone who is in the moon's shadow

8 What term best describes the occurrence of total solar eclipses?

- A Commonplace
- B Annual
- C Infrequent
- D Monthly

9 What happens when a penumbra or antumbra hits the earth?

- A There's a partial solar eclipse
- B There's a total solar eclipse
- C There's a lunar eclipse
- D There's a sidereal eclipse

10 What is one effect of staring directly at a solar eclipse?

- A Heart trouble
- B Eye damage
- C Brain tumors
- D Cancer



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1 Which term best describes the rise and fall of the ocean's water level?

- A Sudden
- B Ceaseless
- C Random
- D Unpredictable

2 Which of the following is a true statement about gravity?

- A It acts on all matter in the universe
- B It pushes objects away from one another
- C It does not exist in outer space
- D It gets weaker the closer you get to the sun

3 If the sun is bigger than the moon, why does the moon have a greater effect on tides?

- A The sun's gravity doesn't affect water
- B The moon is much closer than the sun
- C Although the moon is smaller than the sun, it's has more mass
- D The earth blocks the sun's gravitational pull

4 High tides occur:

- A At either the North Pole or South Pole, depending on where the moon is
- B On the side of the earth facing away from the moon only
- C On the side of the earth facing the moon only
- D On the side of the earth facing the moon, and also the opposite side

5 If the moon orbited the earth twice as fast as it does now, how many high tides would one area experience in one day?

- A Two
- B Four
- C Six
- D Eight

6 At one beach, high tide occurs at 8 a.m. When will the next high tide most likely occur?

- A Noon
- B 4 p.m.
- C 8 p.m.
- D 8 a.m. the next day

7 Which of the following is a true statement about tidal energy?

- A It's easy to harness
- B It's more efficient than solar energy
- C It's more powerful than the energy we get from fossil fuels
- D It causes very little pollution

8 What might happen on a beach as the tide goes out?

- A Sand castles built by kids might get washed away by the ocean
- B The waves will almost definitely grow taller and more powerful
- C There will be more sand for beachgoers to sunbathe on
- D Sand dunes and other formations will begin eroding

9 What might happen if the moon were only half as large as it is now?

- A There would be no tides
- B Most areas would receive fewer high tides each day
- C The ocean level would rise and fall less dramatically
- D Ocean waves would not be very large

10 The moon's gravity affects:

- A Both the solid parts of the earth and the oceans
- B The solid parts of the earth only
- C The oceans only
- D The entire solar system