



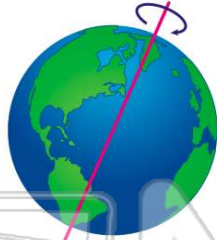
The Sun-Earth-Moon System

Sci
G

Name _____ Class _____ Date _____

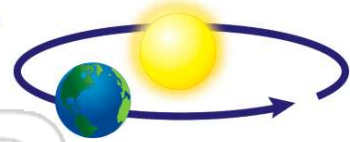
1 The **spinning motion** of the earth on its axis is called _____.

- A rotation
- B revolution
- C orbit
- D period of revolution



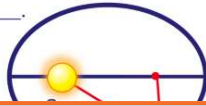
2 The **period of revolution** of the earth is _____.

- A 1 day
- B 365 days
- C 30 days
- D 28 days



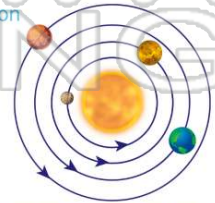
3 In the 1600s, **Johannes Kepler** discovered that the planet Mars does not travel in a circle around the Sun. Instead, the path it travels is an **ellipse** (which looks like an elongated circle) in which the Sun is one of the two foci of the ellipse. This discovery is called _____.

- A Kepler's first law of motion
- B Kepler's second law of motion



4 Kepler's **second law of motion** states that _____.

- A planets move faster when they are further away from the sun
- B planets move faster when they are closer to the sun
- C planets move at the same speed regardless of their distance from the sun



5



PREVIEW

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7

- A 2 pounds
- B 12 pounds
- C 24 pounds
- D none of the above



- B the earth is tilted on its axis and it rotates around the sun
- C polar winds constantly battle with tropical winds
- D the sun's electromagnetic radiation pulses on a regular, or seasonal, basis



9

In terms of the seasons, areas near the **equator** experience _____.

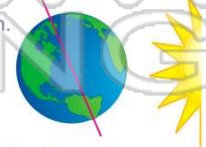
- A dramatic seasonal shifts from hot to cold
- B several months of sunlight followed by months of complete darkness and cold
- C high temperatures and the same amount of sunlight, with little variation, throughout the year
- D seasonal fluctuations of very hot to cool temperatures



10

During the summer in the Southern Hemisphere, the **Northern Hemisphere** is experiencing _____ the sun.

- A longer days and higher temperatures because it's tilted away from
- B longer days and higher temperatures because it's tilted toward
- C shorter days and lower temperatures because it's tilted away from
- D shorter days and lower temperatures because it's tilted toward

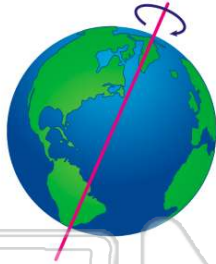




ANSWER KEY

The **spinning motion** of the earth on its axis is called _____.

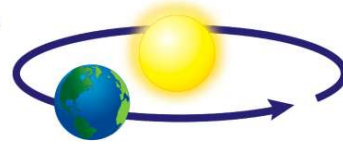
- A rotation
- B revolution
- C orbit
- D period of revolution



(a)

The **period of revolution** of the earth is _____.

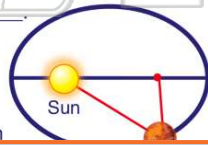
- A 1 day
- B 365 days
- C 30 days
- D 28 days



(b)

In the 1600s, **Johannes Kepler** discovered that the planet Mars does not travel in a circle around the Sun. Instead, the path it travels is an **ellipse** (which looks like an elongated circle) in which the Sun is one of the two foci of the ellipse. This discovery is called _____.

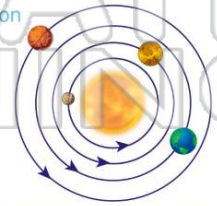
- A Kepler's first law of motion
- B Kepler's second law of motion
- C Kepler's third law of motion
- D



(a)

Kepler's **second law of motion** states that _____.

- A planets move faster when they are further away from the sun
- B planets move faster when they are closer to the sun
- C planets move at the same speed regardless of their distance from the sun



(b)



PREVIEW

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- A 12 pounds
- C 24 pounds
- D none of the above



- C polar winds constantly battle with tropical winds
- D the sun's electromagnetic radiation pulses on a regular, or seasonal, basis

In terms of the seasons, areas near the **equator** experience _____.

- A dramatic seasonal shifts from hot to cold
- B several months of sunlight followed by months of complete darkness and cold
- C high temperatures and the same amount of sunlight, with little variation, throughout the year
- D seasonal fluctuations of very hot to cool temperatures



(c)

During the summer in the Southern Hemisphere, the **Northern Hemisphere** is experiencing _____ the sun.

- A longer days and higher temperatures because it's tilted away from
- B longer days and higher temperatures because it's tilted toward
- C shorter days and lower temperatures because it's tilted away from
- D shorter days and lower temperatures because it's tilted toward



(c)