Chp 18 Lect 3: Video Notes & Review Notes

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Video 12: _____

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COMETS

Date:_____
Name:_____
Class:_____

1 **What is one major difference between a comet and a shooting star?**

A Shooting stars can be seen with the naked eye; comets can't
B Shooting stars burn up in the earth's atmosphere; comets usually don't
C Shooting stars have tails; comets usually don't
D Shooting stars are made of hot gases; comets are solid bodies

2 If you wanted to travel to the Kuiper Belt, where would you go?

A Between the planet Mercury and the sun
B Between Earth and Mars
C Between Mars and Jupiter
D Beyond the orbit of Neptune

3 What do comets have in common with Earth?

A They orbit the sun
B They're primarily made of ice and dust
C They have north and south magnetic poles
D They are both spherical in shape

4 **What causes comas to form around comets?**

A Speed
B Light
C Heat
D Chemical reactions

5 A comet's tail can be as long as:

A The distance from New York to Los Angeles
B The distance from Chicago to Tokyo
C The distance from Earth to Venus
D The distance from the sun to the Oort Cloud

6 You can see a comet passing Earth:

A Practically every night
B Once every few weeks
C Once a year
D Very rarely

7 Halley's Comet passed Earth in 1986. When is it likely to pass Earth again?

A 2016
B 2061
C 2085
D Never

8 What is the major difference between Comet Hyakutake and Halley's Comet?

A The lengths of their orbital periods
B Their sizes
C Their chemical compositions
D Their points of origin

9 How old are comets, compared to the rest of the solar system?

A They're the same age as the sun
B They're younger than the sun, but older than the planets
C They're younger than the sun, and the same age as the planets
D They're younger than both the sun and the planets

10 **In ancient times, comets were regarded as omens. What is the best synonym for "omen"?**

A Miracle
B Star
C Living creature
D Supernatural message

ASTEROIDS

Date:_____
Name:_____
Class:_____

1 How many asteroids do scientists believe exist in the solar system?

A Between 10,000 and 50,000
B Between 500,000 and 750,000
C Between 750,000 and 1 million
D More than 1 million

2 If you wanted to find an asteroid with a telescope, where would be the best place to look?

A Between Mars and Jupiter
B Between Earth and Venus
C Between Jupiter and Saturn
D Between Mercury and Venus

3 In the phrase "Most asteroids are irregular in shape," what is the best synonym for "irregular?"

A Lopsided
B Polygonal
C Spherical
D Similar

4 What do asteroids have in common with Earth?

A They have oxygen-rich atmospheres
B They rotate around a central axis
C Many of them contain liquid water
D They're made mostly of magnesium

5 **How old are asteroids compared to the rest of the solar system?**

A They're much older than the rest of the solar system
B They're older than the sun, but younger than the planets
C They're about the same age as the rest of the solar system
D They're much younger than the rest of the solar system

6 Which of these terms describes the makeup of most asteroids?

A Rocky
B Gaseous
C Liquid
D Metallic

7 **What's the main reason that scientists study asteroids?**

A Because there is a good chance they may destroy the planet
B Because they may provide a good source of water in the future
C Because they contain rare elements not found on Earth
D To better understand of the origins of the solar system

8 **Why do asteroids burn up as they enter Earth's atmosphere?**

A The oxygen trapped inside them ignites in the presence of nitrogen
B Because they are covered in an extremely flammable material
C Heat is created by friction between the asteroid and the atmosphere
D The sun's UV rays ignite them when they pass through the ozone layer

9 What is the difference between a meteor and a meteorite?

A Meteors burn up in the earth's atmosphere; meteorites strike the earth
B Meteors are found throughout the solar system; meteorites are found only in the asteroid belt
C Meteors are similar to comets; meteorites are similar to dwarf planets
D Meteors are much larger than meteorites

10 How is Ceres different from all the other asteroids in the solar system?

A It has a satellite revolving around it
B It rotates on its axis
C It revolves around the sun
D It's much larger than all other asteroids