

Chapter 17 Study Guide EARTH IN SPACE ANSWERS

Name \_\_\_\_\_ Date \_\_\_\_\_

Vocabulary:

Write the definitions for the vocabulary words: Use the vocab cards or the textbook.

These definitions are on the student's vocab cards.

Space probe

Rotation

Axis

Revolution

Solar system

Satellite

Asteroid

Moon phases

What is the shape of the orbit that the Earth takes around the sun? (Earth's Orbit)

Elliptical

What is similar about all of the outer planets except Pluto? (548-5)

They all have rings and are gaseous giant planets.

What causes the seasons on the earth and temperatures in the polar regions to remain so cold? (Earth's Comfortable Temperature)

Seasons Are Caused the tilt of the earth on its axis.

The Poles remain cold because areas around the poles receive less amounts of sunlight each day.

Remember this sentence: It's the **TILT** of the earth on its axis, not the distance that affects the seasons. (546)

How are all the inner planets alike? (548-551)

Closer to the sun, small, rocky

Name the planets in order from the sun. (548)

\_\_\_Mercury\_\_\_ Venus \_\_\_Earth\_\_\_ Mars \_\_\_\_\_  
\_\_\_Jupiter\_\_\_ Saturn \_\_\_Uranus\_\_\_ Neptune \_\_\_\_\_  
\_\_\_Pluto\_\_\_\_\_

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What is the sentence you would use to help you remember the order of the planets?

My Very Excellent Mother Just Served Us Nine Pizzas

How long is one day? \_\_\_\_\_ The amount of time it takes to (p.544)

Explain what a "shooting star" is in a complete sentence. (555)

Shooting stars are not really stars. It is a meteor that shoots through the earth's atmosphere and heats up quickly and glows like a fireball

Define the following words: (555)

Meteoroid- small asteroid

Meteor- a meteoroid that enters the earth's atmosphere

Fireballs- very bright meteors

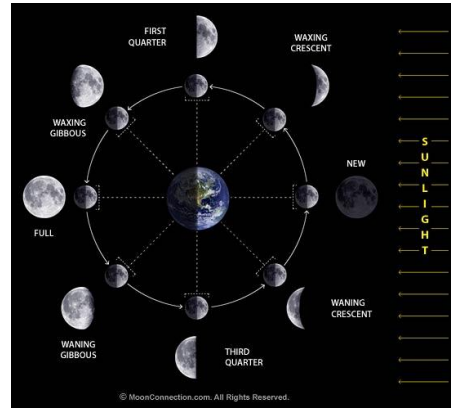
Meteor shower- When the earth passes through the orbit of a comet, the comet loses pieces when they collide with the earth's atmosphere-they become meteors

Meteorite-- a piece of meteor that lands on earth -

THIS SECTION IS ON THE MOON.

The moon is full of craters. Why are there so many craters and why do they never disappear from the surface of the moon?(556)

Craters are caused by crashes of comets and rocks that crash from space. There is no wind or atmosphere, so nothing changes.



Describe each moon phase---(559)

New moon- moon passing between earth and sun—earth shadows the moon so it can't be seen

Crescent moon- tiny sliver of the sunlit side- a few days after New Moon

First quarter- a week after New Moon- half of the Moon's sunlit side faces Earth

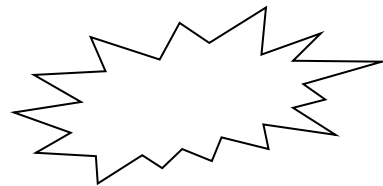
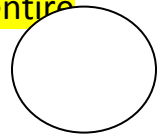
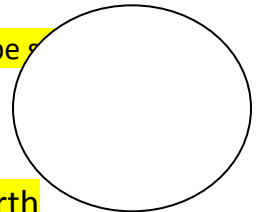
Full -moon- two weeks after New Moon- Earth is between Moon and Sun- the entire lighted side is seen

Draw the position of the sun- moon-earth during full moon phase.

Sun Earth Moon

Draw the position of the sun-moon-earth during New Moon phase.

Sun Moon Earth



What causes the planets to have years of different lengths?(548) The distance it takes to make one revolution around the sun

Draw a comet and label the 4 parts:

Ion tail-glowing charged gases-bluish

Dust tail-fine dust particles-wide-yellowish

Nucleus-small-dirty snowball-dust and ice

Coma- giant cloud of dust and evaporated



gases

Which part exists all the time?(552-5530)

Nucleus

Which 3 parts are seen only when the comet comes close to the sun? (552-553)

Coma dust tail ion tail