Dec. 3, 2019

1. Sharpen your Pencil
2. Sit in assigned seat silently
3. Take out Brain Dump from yesterday (Mon. PDN)
4. Add new information we reviewed yesterday over objects in space, gravity and space exploration.
   (be as specific as possible)

Advidory

This week we are talking about responsibility.

(Video)

What does responsibility look like?

Sound Like? Feel like?

TEK 6.11 Space

6.(11) Earth and space. The student understands the organization of our solar system and the relationships among the various bodies that comprise it. The student is expected to:

(A) describe the physical properties, locations, and movements of the Sun, planets, moons, meteors, asteroids, and comets;

(B) understand that gravity is the force that governs the motion of our solar system; and

(C) describe the history and future of space exploration, including the types of equipment and transportation needed for space travel.

LO

Students will apply knowledge over space/TEK 6.11 to complete a fall semester review.

DOL

Students will complete multiple choice questions over space/TEK 6.11 with 80% accuracy or higher.

Agenda

1. PDN
2. Multiple Choice Review Questions
3. Enter Question Answers into All in Learning for DOL
4. Correct Multiple Choice (DOL) Questions

Fall Semester Final Exam Review in science journal

Daily Grade taken for having ALL SUPPLIES everyday

- Science ONLY Notebook
- Pen/Pencil that Writes with eraser that works
- Completed Homework (STUDY AT HOME!!!)
- Charged Chrome Book (NOT ALLOWED TO GO GET FROM ANYWHERE ONCE TARDY BELL HAS RUNG) NO Chrome Book= Write Out Everything by Hand

I AM NOT OFFICE MAX / WAL-MART OR ANY TYPE OF SUPPLY STORE, BRING YOUR OWN!

Name: _____ Period: ___

Fall Semester Final Exam Review TEK 6.11 Space

Kahoot: https://create.kahoot.it/share/unit-1-space-district-test/9d6b678d-88ca-4308-89e4-b08035449b71

Quizlet: https://quizlet.com/252542612/tek-611-ab-celestial-bodies-in-space-gravity-flash-cards/

https://quizlet.com/246235407/space-objects-space-objects-objects-in-space-space-objects-objects-in-space-flash-cards/

Kahoot Directions: Fill in the correct answers for each question below as you follow along/play the game.

1. What is one characteristic that the planets have most in common?

2. What keeps the moon within the Earth's orbit?

3. What force keeps the planets from flying off straight into space?

4. Does Mercury and Mars or Mercury and Venus lie close to the sun than the Earth does?

5. What is one difference between the space vehicles of the past versus the shuttle of today?

6. What is an obstacle that NASA must plan for before they can travel to Mars?

7. If a probe approaches a planet in space, which one will have the greatest gravitational force?

8. If man was to travel to Mars, what would be the most important piece of equipment needed considering the length of the trip?

9.What makes it possible for life to exist on Earth? What makes it different from the other planets?

10. Scientists are able to accurately predict when a comet will collide with a planet due to understanding…..

11. True/False If I want to pass this test I do NOT have to study at home? _____

12. True /False If I study at home as well as at school and use all my strategies correctly, I CAN PASS this TEST!
_____

13. What items do I have that can help me to study

Task Cards Practice:

1. Our solar system is composed of planets and a variety of other objects including moons, comets, and asteroids. Which of the following is true about the planets in our Solar System?

A: all planets have an elliptical orbit ?

~~B: all planets have moons~~ not all planets have moon

~~C: all planets complete one revolution about every 365 days~~ not all planets

D: all ~~planets have the same sur~~face temperature not all planets

2. The picture below shows a rocket from the Gemini program of the 1960's.

help effects of space flight on humans

At the time, space missions like these led to which advancements?

~~A: a close observation of the surface of the moon~~

B: to understand the effects of longer space flights on humans ?

~~C: the exploration of the mountains of Mars~~

~~D: to orbit a manned spacecraft around Earth~~

3.The chart below shows the characteristics of several planets in our solar system.

Planet	Length of Orbit	Surface Features	Number of Satellites Orbiting
W	687 dAYS	POLAR ICE CAPS, CANYONS, CRATERS	2 MOONS
X	30 YEARS	AREAS OF RISING AND SINKING GASES	AT LEAST 17 MOONS
Y	88 DAYS	MANY CRATERS, SMOOTH PLAINS	NONE
Z	12 YEARS	AREAS OF RISING AND SINKING GASES	AT LEST 16 MOONS

Orbit longer then Earth

Orbit longer then Earth, longest orbit in graph

Mercury or Venus (shorter orbit then Earth)

Orbit longer then Earth, second longest orbit in graph

Based on the characteristics, which planet is most likely Planet Y?

~~A: Jupiter~~ C: Mercury

~~B: Mars~~ ~~D: Saturn~~

4.The force that holds the planets to orbit around the sun is called _____.

gravity

~~A: motion~~

~~B: friction~~

~~C: pressure~~

D: gravity

5. Two students were discussing an article about a possible mission to Jupiter. Several ideas about gravity came up during their discussion and are listed below.

I: the sun's gravity is pulling on Jupiter and keeps the planet in orbit

II: you would have the same mass on Jupiter as you do on Earth because mass is a property of the object

III: a rocket traveling to Jupiter would just need to travel beyond Earth's atmosphere before the gravitational force would be zero

IV: the gravitational force of Jupiter keeps its moons orbiting

Which of these ideas best supports what scientists know about gravity?

A: idea I and II

B: idea II and III

C: Idea I and III

D: idea IV only

6. The National Aeronautics and Space Administration (NASA) is the agency responsible for the space program in the United States. What was the goal of NASA's Apollo Space Program?

A: to search for life on planets other than Earth

B: to send a human to land on the Moon

C: to determine the composition of the sun

D: to land on a planet in another solar system

land man on moon

7. Which of the following best describes how early space vehicles were different from the Space Shuttle?

A: earlier space vehicles could carry more supplies/equipment into space

B: Earlier space vehicles were not able to travel as far

C: earlier space vehicles were not reusable

D: Earlier space vehicles were much safer than the space shuttle

8. How is Earth different from all of the other planets in our solar system?

A: it has a breathable atmosphere

B: it is warmed by the sun

C: it has a rocky surface

D: it rotates on its axis

9. In July 1994 the comet Shoemaker-Levy 9 collided with the planet Jupiter, as scientists had predicted. To be able to accurately predict when a comet will collide with a planet, it is essential to understand…

A: the composition of a planet's atmosphere

B: the gravitational attraction that exists between all objects

C: the attraction of opposite poles of a magnet to each other

D: the formation of comets

10. Scientists have determined that a trip to Mars and back to Earth would take approximately 21 months. Which of the following pieces of equipment would be most important when considering the length of this trip?

A: a heat shield that would protect the spacecraft on reentry to the Earth's atmosphere

B: exercise equipment that would keep the astronaut's muscles and bones healthy during the trip

C: space suits that will allow astronauts to work in extreme temperatures

D: a countdown clock that show the time remaining in the trip.

11. As man continues to plan space travel to other planets there will be many obstacles. Which of the following describes a challenge NASA must overcome as they plan for travel to planets such as Mars?

A: fuel sources will have to be developed that are easily stored for long periods of time

B: rockets will have to be developed that will allow a spacecraft to escape the Earth's gravity

C: Scientists will have to develop spacesuits that can withstand the atmospheric conditions of space.

D: NASA will have to train astronauts to function in zero gravity

12. The reason the Moon orbits Earth is due to the …

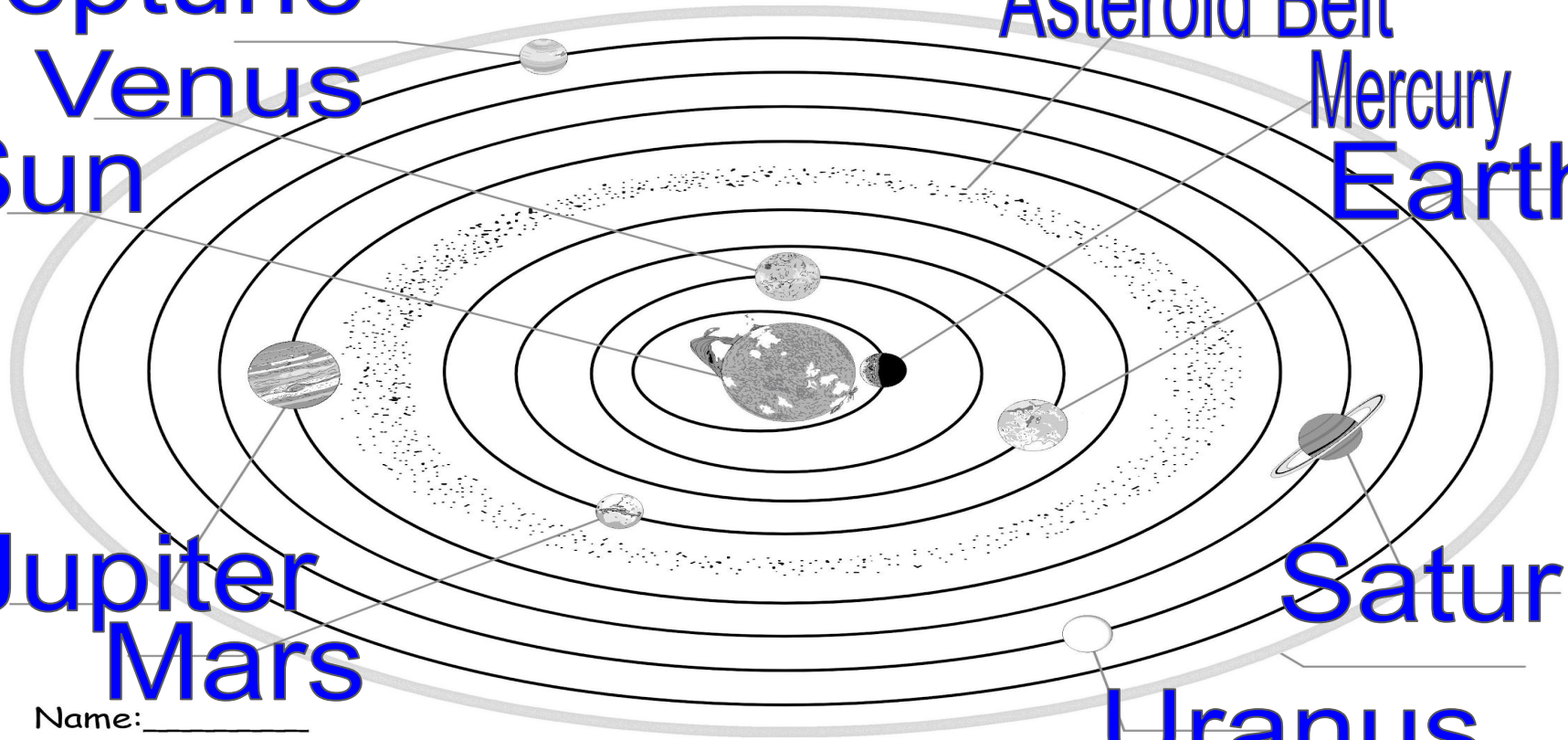
A: distances of the Moon and Earth from the sun

B: energy reflected from the surface of Earth

C: winds generated on Earth by the energy of the sun

D: gravitational attraction between the Moon and Earth

Label the planets, asteroids, meteors and comets below



Neptune

Asteroid Belt

Venus

Mercury

Sun

Earth

Jupiter

Saturn

Mars

Uranus

Name:_____