

THIS PASSPORT

BELONGS TO

TEACHER



Passport Astronomy

SCIENCE SOLs

K.1 K.3 K.3b 1.6 1.6a 1.6b 2.3b 3.1
3.1c 3.1d 3.1e 4.1 4.5 4.5a 4.5b 4.5c
5.1

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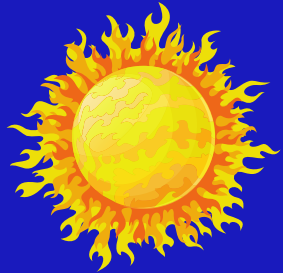
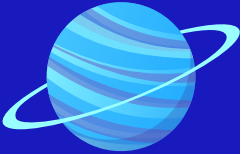


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**Astronomy:
A Glimpse of the Planets and
Our Sun-Star**



**Welcome to
your Virtual Get
Schooled Field Trip with:**



**CENTER
IN THE
SQUARE®**
Discover • Play • Inspire

**and
Matthew C. Fleenor,
Ph.D**

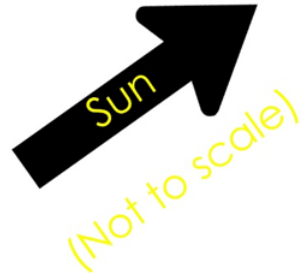
Welcome to Astronomy!

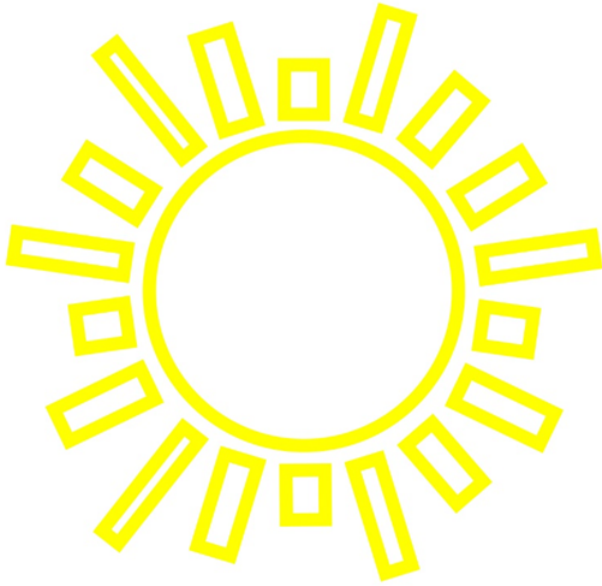
"Twinkle, twinkle little. . . luminous spheroid of plasma. . ." Perhaps that's not quite how we sing it, what is another word for, "luminous spheroid of plasma?"
star

What is the name of your Astronomy Tour Guide?
Matt Fleenor

What is the name of earth's closest star? sun

We can only see other stars at night, or during a . . .
solar eclipse,
which is when what happens? Draw the missing feature in the picture below!





On the roof of Center in the Square we see objects that collect energy from the sun. They are called,

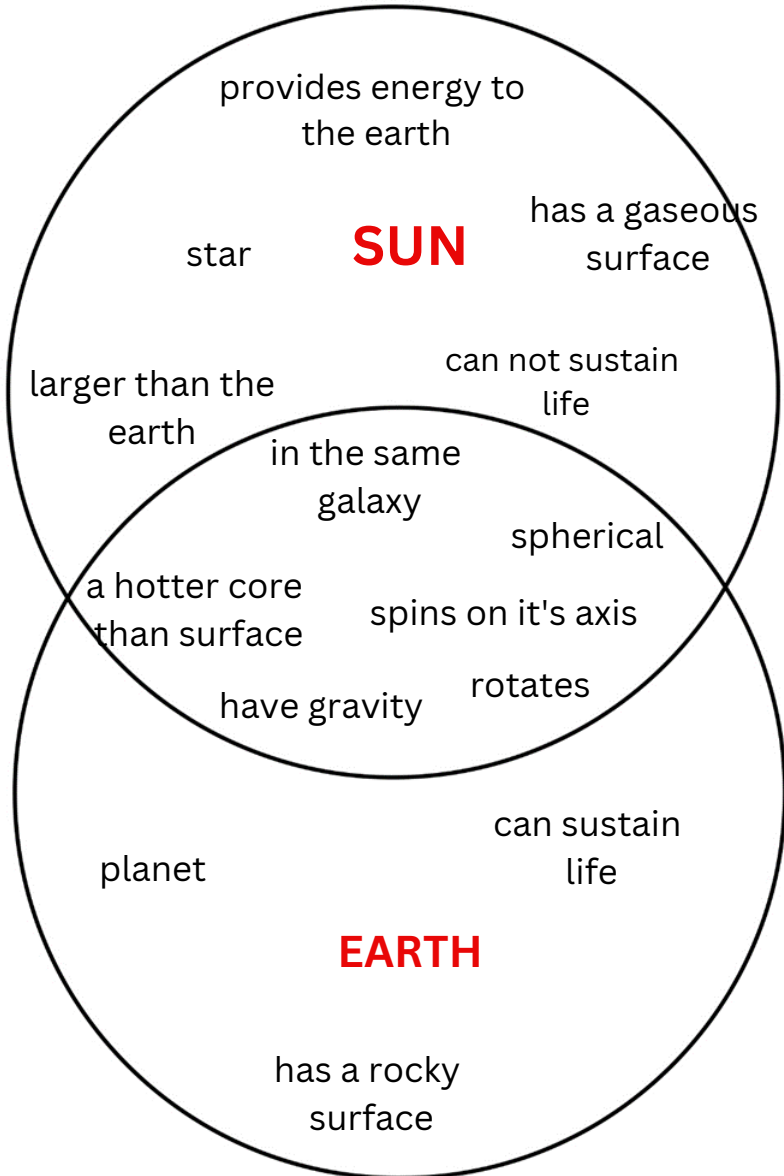
solar

panels

Draw a picture below

How are the sun and the earth similar? How are they different?

Use the Venn Diagram to draw or write what you know below.





Did you know?
Most stars have
planets.



Our Solar System has 8 planets.

Dr. Fleenor also mentions some other things our Solar System has, can you name two of the things he said?

asteroids, comets and dwarf planets

THE INNER PLANETS ARE

rocky

&

small

THE OUTER PLANETS ARE

large

&

gas-like

DO YOU THINK IT MATTERS HOW FAR A PLANET IS FROM THE SUN?
EXPLAIN:



You may get a variety of answers for this one. Our
thought in asking this is to see if the student
understands that distance from the sun affects
sustainability on the planet.

DRAW A PICTURE OF OUR
SOLAR SYSTEM.
INCLUDE AS MANY DETAILS AS YOU CAN.

Riddle me this:

What do Goldilocks and the distance from the earth to the sun have in common? Explain:

Both were looking for scenarios that were "just right".



Fill it in:

Because the sun-star shows many properties of both liquids and gases, but also charged solids, we say that the sun-star is made of plasma.

Lightning is an example of plasma on earth.

Draw it below!

What do we call it..

When conclusions are drawn without absolute verification of all possibilities?
inferences

How do we use this skill in science?

We have been able to learn things
about other stars because of what we
know about our sun star.

How have you used this skill in your own life?

The sun star spins on it's axis,
and orbits around the center of our galaxy.
Illustrate that below!

Can you name the Planets?

Mercury

Venus

Earth

Mars

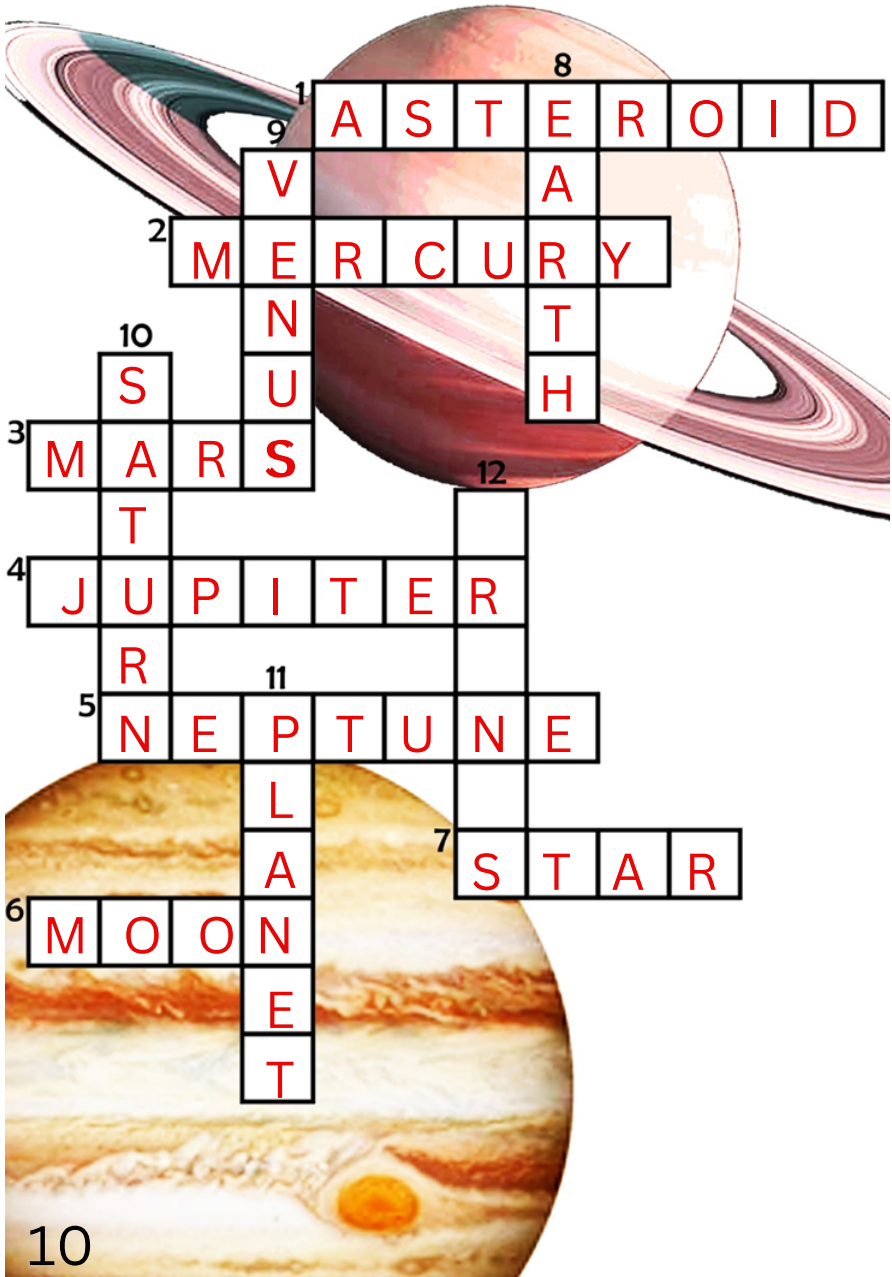
Jupiter

Saturn

Uranus

Neptune

This Crossword Puzzle is Out of this World!



The Clues:

Across:

1. These miniature, rocky planets are found in the inner Solar System. There are millions of them!
2. Also the name of an element on the Periodic Table of Elements, and a Roman God, this planet circles the sun the fastest (because it's the closest to it! It's orbit is much shorter than the others).
3. The, "Red Planet."
4. At 11 times the size of the Earth, this is our Solar System's largest planet.
5. It's chilly out here! This planet is the farthest from the sun.
6. A, "natural satellite."
7. Illuminated plasma held together by its own gravity.



Down:

8. Our home.
9. Due to an incredible, "greenhouse effect" this is the hottest planet even though it is not the closest to the sun.
10. This planet is known for it's arrangement of ice particles, dust, and rocky debris rings.
11. Round, celestial bodies that orbit a star.

BONUS:

Which planet is the only one named after a female, a Roman Goddess? Venus

How many words can you make from the word, "SATURN?" Write them below: **a beginning list.....**

turn turns

rust star

rat run sat

aunt aunts

ants stun

tan ran sun

tuna runt

arts art

at an us

It's a Meteor Shower of Scrambled up Words!

Unscramble these words below that you heard
in your field trip video:

S A G T I M E N M

magnetism

L A P A S M

plasma

S S S T O P N U

sunspots

N A M E S R R O T

convection

Do you have any science questions? If so,
write them below!
