

FINISH

Game Made on Canva!

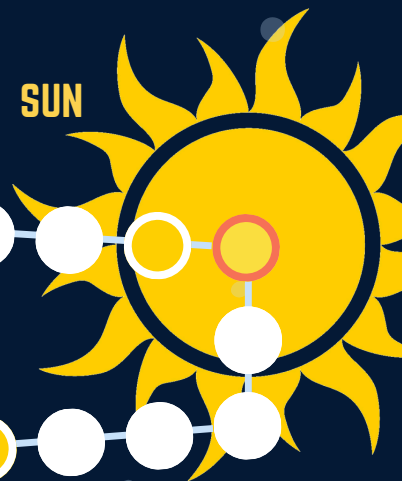
By UC San Diego Global TIES K-12 STEAM Team

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SUN



MOON



URSA MAJOR



BLACK HOLE



ASTEROID BELT

START

ASTEROID BELT RULES:

- Rocks and grey outline spaces is the asteroid belt area
- Dark grey space is "asteroid event" space
- If you land on an asteroid rock space
 - Spin/roll EVEN (2, 4, 6, 8, 10) number to go FORWARD 1 ASTEROID ROCK
 - Spin/roll ODD (1, 3, 5, 7, 9) number, go BACK 1 SPACE

The big Dipper is part of Ursa Major, which means “great bear” in Latin. For centuries, explorers and sailors used it to find their way because its “spoon” shape points straight to the North Star!

Ursa Major isn't just one of the most famous constellations, it's visible all year long in the northern Sky and it's one of the oldest star patterns ever recorded.

Every year the moon is slowly moving away from the Earth. The Earth is moving slower due to friction between Earth and the ocean tides, which allows the moon to slowly creep away each year, about 4 centimeters or 1.578 inches!

It takes 27 days for the moon to fully orbit around the Earth! It also takes 27 days for the moon to rotate about its own axis. Because of this, the same side of the moon is always facing earth.

Some asteroids in the asteroid belt can actually be considered dwarf planets in size and shape, just like Pluto! The largest dwarf planet in our asteroid belt is called Ceres.

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There exist asteroids everywhere in space, but in our solar system we have a whole ‘ring’ of asteroids that orbit the space between Mars and Jupiter, containing around 1.5 million asteroids!

The sun is the center of our solar system, with all of the other planets orbiting around it. This happens because the sun is so big that it pulls all of the other planets in toward it through gravity.

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The Sun is a HUGE star, just like any of the ones you see in the sky at night. It takes over 1 million Earths to fill the volume of the sun.

A black hole is not really a hole but a collection of matter in space. It becomes so dense that the gravity under the surface of a black hole is so strong to suck things in and is very hard to escape. Since you're stuck in a black hole, must roll/spin an odd number to move forward.

**ASTEROID
BELT**



**ASTEROID
BELT**



SUN



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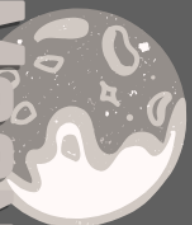
**BLACK
HOLE**



**URSA
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**URSA
MAJOR**



MOON



MOON

Star Card

Question:

Why do people in North America and people in Australia see different constellations?

Answer:

They are in different hemispheres.

Star Card

Question:

Which of these constellations is in the Northern Hemisphere?
a) Centaurus
b) Pavo
c) Ursa Minor
d) Canis Major

Answer:

a) Ursa Minor

Star Card

Question:

Which of these constellations is in the Southern Hemisphere?
a) Hydrus
b) Draco
c) Sagitta
d) Triangulum

Answer:

a) Hydrus

Star Card

Question:

Name one ancient culture that named constellations

Answer:

Middle Eastern / Greek / Roman cultures

Star Card

Question:

What makes it so that we can see different constellations during the year?

Answer:

Earth orbiting the sun / season changes

Star Card

Question:

How many official constellations are there?

Answer:

88

Star Card

Question:

The Big Dipper is part of which larger constellation?

Answer:

Ursa Major

Star Card

Question:

What constellation has the North Star?

Answer:

Ursa Minor

Star Card

Question:

How many zodiac constellations are there?

Answer:

12

Star Card

Question:

Which constellation is this?



Answer:

Draco the Dragon

Star Card

Question:

Which constellation is known as "The Hunter" and is one of the most recognizable constellations in the night.

- a.) Ursa Major
- b.) Orion
- c.) Cassiopeia
- d.) Draco

Answer:

b.) Orion

Star Card

Question:

What do constellations help people do?

- a.) Find the way
- b.) tell stories
- c.) know the seasons
- d.) all of the above

Answer:

d.) all of the above



Star Card

Question:

What constellation has three stars in a row like a belt?

Answer:

Orion

Star Card

Question:

What tiny star cluster is also called the “Seven Sister”?

- A.) Orion
- B.) Andromeda
- C.) Pleiades
- D.) Centaurus

Answer:

C.) Pleiades

Star Card

Question:

True or False: People long ago used stars to travel.

Answer:

True

Star Card

Question:

True or False: our constellations will look exactly the same millions of years from now?

Answer:

False

Star Card

Question:

What Disney princess uses sky wayfinding to navigate the ocean on her voyage?

Answer:

Moana

Star Card

Question:

What zodiac constellation is between May 21st and June 20th?

Answer:

Gemini

Star Card

Question:

Which Northern constellation is known as the “Queen of Ethiopia”? Hint: it starts with a C!

Answer:

Cassiopeia

Star Card

Question:

How long out of the year does each constellation on the zodiac belt span?

- a.) one month
- b.) two month
- c.) three month
- d.) four month

Answer:

a.) one month



STAR CARD



STAR CARD



STAR CARD



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STAR CARD



STAR CARD

Rocket Card

You encounter a group of friendly aliens. They gift you one extra spin.

Rocket Card

You encounter a rogue solar flare. Lose your next turn.

Rocket Card

You discover an alien shortcut tunnel. Move forward 2 spaces.

Rocket Card

A piece of space junk hits your ship! Skip your next turn for repairs.

Rocket Card

Another rocket zooms by and throws you off course!

Roll/spin even number, move forward 2 spaces.

Roll/spin odd number, move back 2 spaces.

Rocket Card

You pass by the International Space Station! Move 2 spaces before the Moon space.

Rocket Card

You fly through a supersonic shock! It shakes up your ship.

Lose your next turn.

Rocket Card

Your rocket ship encounters a warm hole and warps through space and time!

Move ahead/back to the nearest event card.

Rocket Card

Your team stops at a nearby planet for quick replenish energy!

Lose your immediate next turn, but you can spin twice for the turn after.



**ROCKET
CARD**



**ROCKET
CARD**



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