



Science Virtual Learning

**7th Grade Science**

**The Solar System**

April 23rd, 2020



7th Grade Science  
Lesson: April 23rd 2020

**Learning Target: I can model the relationship shared among heavenly bodies called the solar system.**



## Bell Ringer Activity

Test your previous knowledge using Quizziz

[Click Here](#)



**On your paper write these important terms related to today's learning**

**Solar System:** a sun together with the group of celestial bodies that are held by its attraction and also revolve around it

**The Sun:** the center of our solar system made of hydrogen and helium

**Sol:** the name of our sun

**Asteroid Belt:** a band of over 100,000 asteroids & 1 dwarf planet (ceres) located between the inner and outer planets

**Kuiper Belt:** a collection of 100,000 asteroids and 4 or more dwarf planets located between neptune and the Oort cloud

**Dwarf Planets:** a celestial body resembling a small planet but lacking the requirements to be classified as a planet

**Inner planets:** the first four small and rocky planets (have few moons)

**Outer Planets:** the four larger planets between the asteroid belt and the Kuiper belt made of gasses (they have many moons)

**Comet:** a celestial object consisting of a nucleus of ice and dust, has a tail and has a very long orbit around the sun

**Oort Cloud:** an immense, roughly spherical cloud of icy small bodies that revolve around the Sun (located outside of the Kuiper belt)

**Proxima Centauri:** besides our sun (sol) this is the closest star to the earth

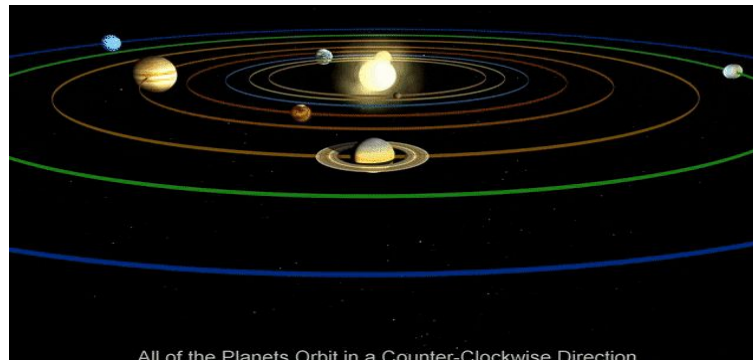
**Asteroid:** a small rocky body orbiting the sun

**Celestial Bodies:** a celestial body is any natural body outside of the Earth's atmosphere

# Explore our Solar System

1. Click on the link below
2. Explore the Solar System Simulator
3. On your paper, write a summary that compares our solar system to the working of a machine.

## Solar System Simulator



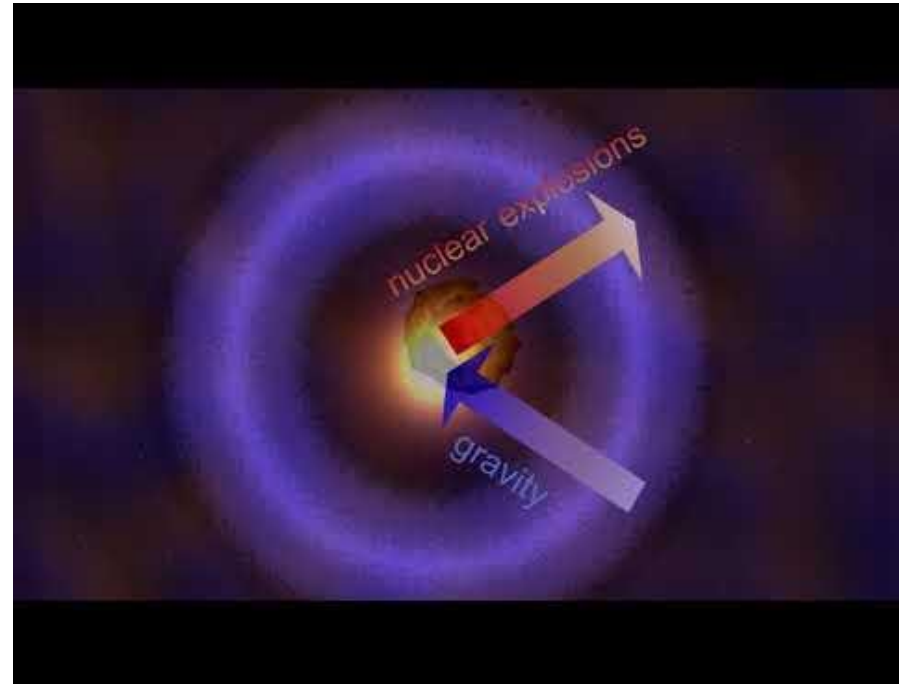
All of the Planets Orbit in a Counter-Clockwise Direction

## Build upon your own understanding

1. Make a T-Chart on your paper
2. On the left side of your T-Chart infer what you understand about how our solar system was formed.
3. Watch the video and write down the facts that you did not know on the right side of the T-Chart.
4. On your paper write a short summary regarding the formation of the solar system.

Write what you already know about the formation of the solar system.

Write what you learned from the film regarding the formation of the solar system.

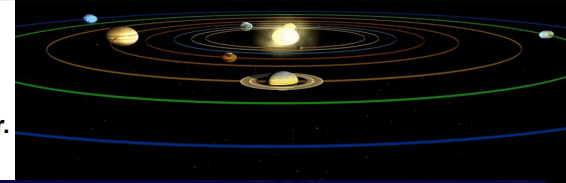


# Just The Facts Please!

1. Copy the table below as it appears. 2. Watch the film and write the facts in the appropriate cells.

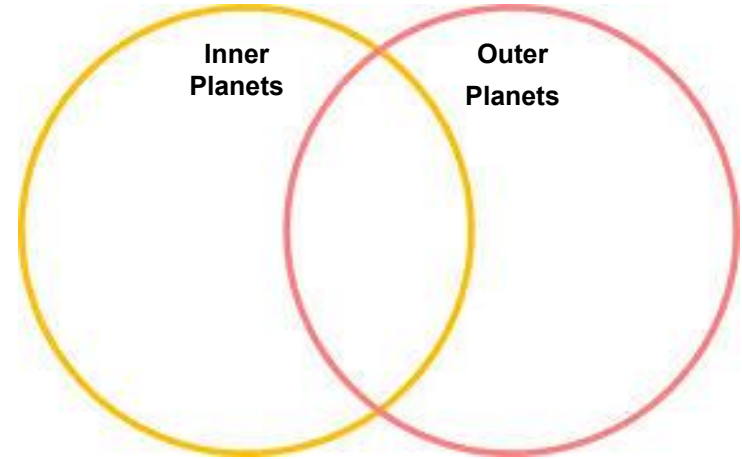
Planet Facts Color Green					
Comet Facts Color Yellow					
Sun Facts Color Orange					
Asteroid Facts Color Brown					
Solar system formation facts Color Red					

3. Color the cells the appropriate color.



## Compare & Contrast Inner Planets Vs. Outer Planets

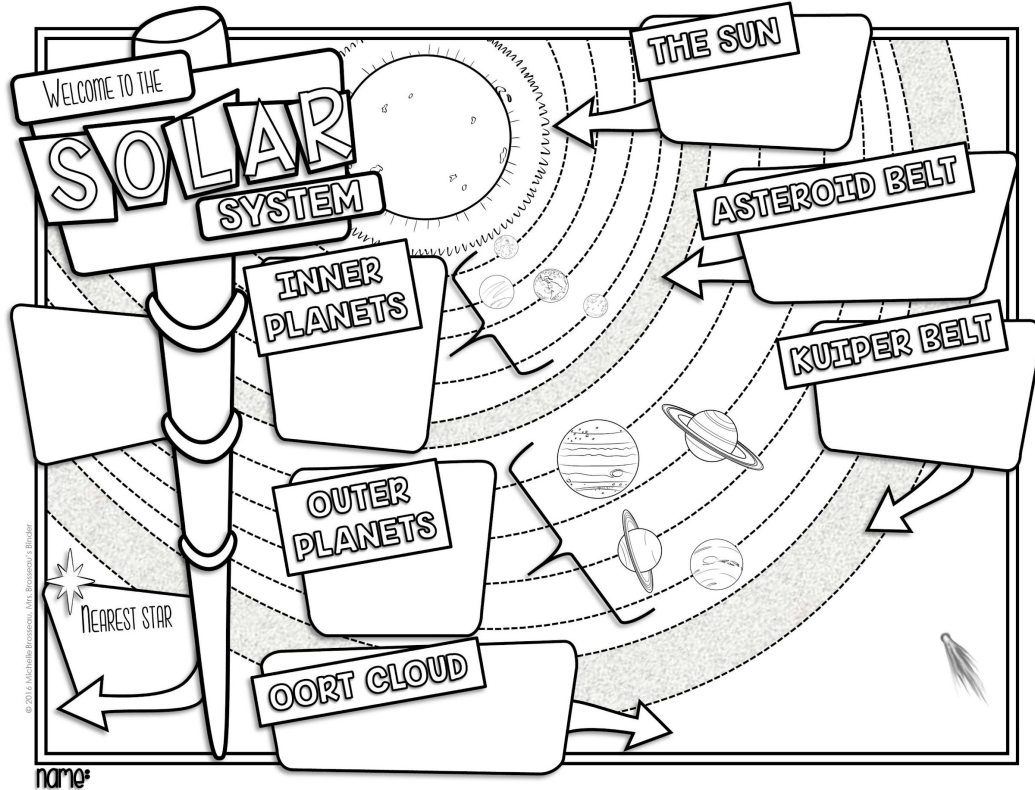
1. Create this Venn diagram as you see it here.
2. Using what you have learned about inner and outer planets, fill in the diagram with the correct information





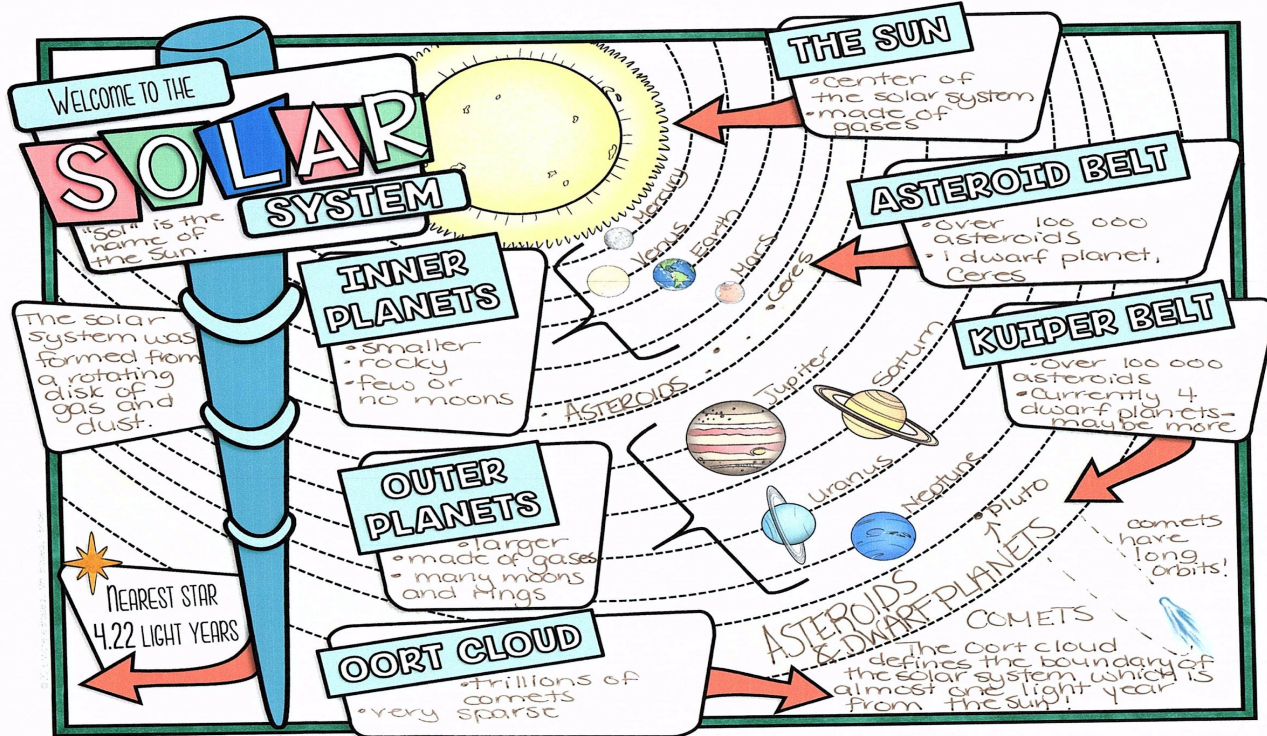
# Create a One-Pager

1. Either print or recreate a One-Pager like this or from your own design.
2. Include all of the elements listed on the right-side of this slide.
3. Color appropriately.



Solar System  
 The Sun - Sol  
 Asteroid Belt  
 Kuiper Belt  
 Dwarf Planets  
 Inner planets  
 Outer Planets  
 Comets  
 Oort Cloud  
 Proxima Centauri  
 Asteroid  
 Celestial Bodies

# Potential One-Pager Solution



name: Solutions