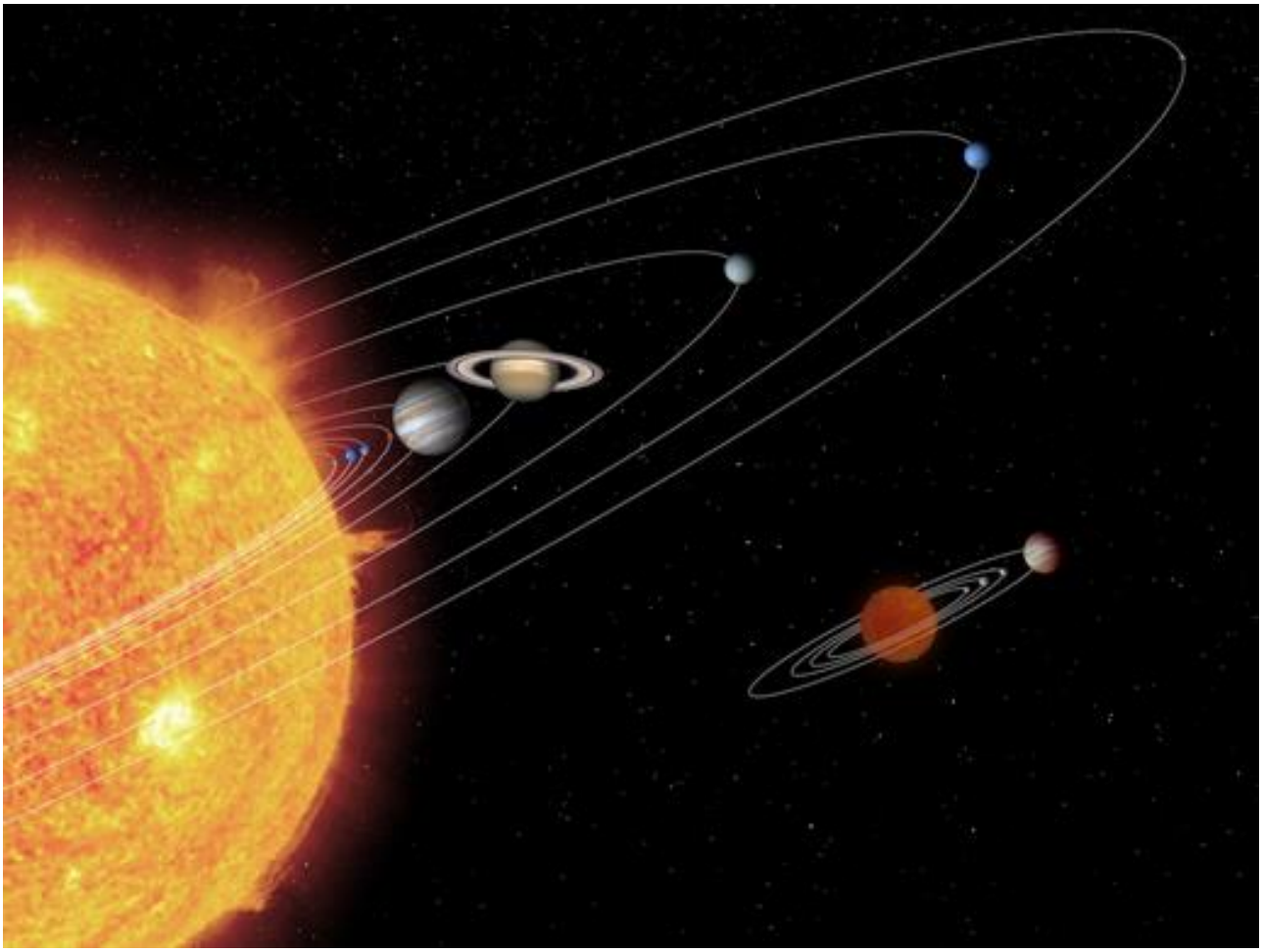

revolution:
a circular movement around something

Mars Rover Model Celebration – Lesson Plan

Introduction:

One of the new vocabulary words for this unit is "revolution". Revolution has several meanings, but in today's lesson it means "a circular movement around something".

Let's look a picture that will help us understand this meaning of the word "revolution". This picture shows a planet moving through outer space. The barely visible line shows the path this planet is taking around its star. We call this big circular movement around a star a planet's revolution.

Example:

Here is another example: Several planets revolve around the sun. The time required for each planet to revolve around the sun is different. For example, a full revolution of the Earth around the sun takes approximately 365 days. However, a full revolution of Mercury around the sun takes only 88 days, and the full revolution of Jupiter around the sun takes nearly 12 years. So Mercury goes around the sun almost 4 times while the Earth completes one revolution (1 year). By the time Jupiter completes one revolution around the sun, the Earth has completed nearly 12 revolutions.

Reflection:

I am going to name some things that move. If they move in a revolution, I want you to put your thumbs up and say "revolution". If they do not move in a revolution, put your thumbs down and remain quiet.

- Leaves blowing in the wind (thumbs down)
- A model train traveling around a tabletop (thumbs up)
- A bus taking students to school (thumbs down)
- A child riding a merry-go-round (thumbs up)

Why do you think the revolution of Mercury only takes 88 Earth days but Jupiter's revolution takes nearly 12 Earth years? Be sure to use the word revolution in your answer. . *Mercury is much closer to the sun than Jupiter so its revolution is much shorter. Jupiter has to travel much further than Mercury to make one revolution*

Make it personal:

If a dog ran in circles around his owner, he would be making revolutions. Race cars make revolutions around a racetrack. Sit in a team of 2 to 4 students and try to think of other examples of things that make revolutions around another object.