

## What You Will Learn



Sizes of planets in accordance with one another

Planet Temperature \& Size


Characteristics of the
planets in the Milky Way

## Before Our Journey, Know these Terms...

- Galaxy- a large system of stars held together by mutual gravitation and isolated from similar systems by vast regions of space.
o Light Year- unit by which intergalactic distances are measured. (A light year is $5,865,696,000,000$ miles .)
- Planet-Also called major planet; any of the eight large heavenly bodies revolving about the sun and shining by reflected light
o Dwarf Planet -a spherical body revolving about the sun, similar to a planet but not large enough to gravitationally clear its orbital region of most or all other celestial bodies.


# What can you tell me about Outer Space? 

What's it like? Are other planets like
Earth? Do aliens really exist on other planets?
Let us journey into Outer Space...

We will be covering the planets
in the order they appear from the sun. Can you tell me the order of the planets?

Attention explorers, our first stop is not a planet, but an ever important star, especially for us. It is....
THE SUN $\uparrow$

## Our First Stop: The Sun

- The largest star in the Milky Way.
-The diameter of the Sun is 870,000 miles.
-The Sun's distance from the Earth is 93 million miles.
-The Sun's core is composed of hot \& dense gasses. It has a temperature of 27 million degrees $F$.


## Internal structure:



## Our Next Stop: Mercury

The $8^{\text {th }}$ largest star in the Solar System The diameter of Planet Mercury is 4,878 km
Mercury's minimum distance from Earth is 48 million miles.

## Our $3^{\text {ra }}$ Stop: Venus

The sixth largest planet in the Solar System Similar in size, density, and mass $\equiv$ Venus and Earth.
c. Maximum distance of Venus from the Sun is 68 million miles.

- Minimum distance of Venus from the Earth is 25 million miles.



## $5^{\text {th }}$ Stop: Mars The Red Planet

Is it the 7 th largest planet in the Solar System.

- Mars maximum distance from the Sun $=155$ million miles.
- Mars is 35 million miles from Earth


## 6th Stop: Jupiter

o Jupiter, the largest planet in our solar system.
o Jupiter's maximum distance from the Sun $=508$ million miles.
o Jupiter's minimum distance from Earth = 365 million miles.

## $7^{\text {th }}$ Stop: Saturn

- The second largest planet.
o Saturn's maximum distance from the Sun is 938 millionmiles.
Saturn's minimum distance from Earth is 746 million miles.


## $8^{\text {th }}$ Stop: yranus

o:Third largest planet in the solar system.
o Uranus maximum distance from the Sun is 1.88 billion miles.
o Uranus $m$ imum distance from the Earth is 16 billion miles.

## $9^{\text {th }}$ Stop: Neptune, the Windy Planet

o The fourth largest planet in the solar system.

- Neptune's maximum distance from the Sun 2.8 billion miles.
c. Neptune's minimum distance from Earth 2.7 hillion miles.


# $10^{\text {th }}$ Stop: Pluto, the little Planet that Wasn't 

Pluto is a in the solar system. It is the smallest.
Pluto maximum distance from the Sun 4.6 billion miles.

- Pluto's minimum distance from Earth 2.7 billion miles.


## Jupiter

## Saturn

## o Bill Ne the Science Guy Video

## Uranus

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\text { Earth } \rightarrow \text { \& } \& \leftarrow \text { Pluto }
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## - Video Planet Sizes Sun

Jupiter

