Our Solar System

Our model will give you a unique perspective on the Solar System because it is scaled accurately to both the Sizes of the Sun and planets, and their Distance from each other.

Our Sun is a mid-sized, middle aged star among hundreds of billions in our galaxy, the Milky Way. There are roughly 100 billion known galaxies. Our model Sun is located just outside the Gym, on the meadow side of the Boathouse cabin.

The Journey Begins
From the Sun, head up towards the driveway,

and left towards the main gate. You may wish to run, bike or drive to see the last planet, Pluto (we're keeping it.) It is located over six kilometers away.

Check these websites out if you want to expand your knowledge of the cosmos.

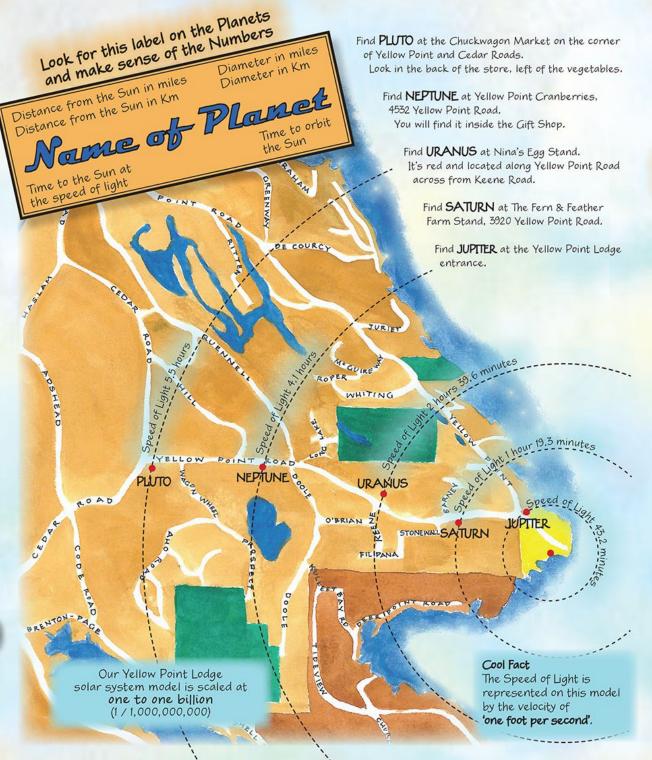
> NASA - www.nasa.gov Space Facts - www.space-facts.com National Geographic - http://science. nationalgeographic.com/science/

A Big Sky Fan

A generous bequest from a very long standing guest & good friend, Mr. John MacDonald, P.Eng

helped make this solar







Enjoy a walk, bike or drive through the property and neighborhood on our

Tourney Through Solah System

I wonder what it's like up there? I'd be the first to go if I could... just to find out!



An accurately scaled model of our home star system with the sun located at YPL

Visitors to the property are requested to check in at the main office before they start their journey.

Vellow Point Lodge

3700 Yellow Point Road Ladysmith, BC Canada V9G 1E8 250-245-7422 www.yellowpointlodge.com

Distances from Sun are in millions of kilometers or miles. Illustrations of planets are not to scale.

SUN

Diameter = 1,391,684 km (864,776 miles) The Sun is almost a perfect sphere with only a 10km (6.2 miles) diameter difference between the poles and the equator. Light from the Sun takes 8 minutes to reach Earth. The Sun converts 600,000,000 tons of Hydrogen to Helium through nuclear fusion every second. At around 4.5 billion years old the Sun is middle aged and has enough Hydrogen left to burn for another 5 billion years.

MERCURY

Diameter = 4,879km (3,032 miles) Distance from Sun varies due to orbit eccentricity = 46km (28.5 miles) to 70km (43.5 miles) Orbital period around Sun = 88 days As the planet closest to the Sun, the surface temperature of Mercury fluctuates between 427°C (800°F) and -173°C (-279°F). The surface is covered in "wrinkles" called Lobate Scarp up to a mile high and hundreds of miles long.

VENUS

Diameter = 12,104km (7,521 miles) Distance from Sun = 108.2 km (67.2 miles) Orbital period around Sun = 224.7 days Venus is the second brightest object in the night sky after our moon. The atmosphere is 92x denser than Earth. Meteors entering the atmosphere are crushed, resulting in no impact craters on the surface.

EARTH

Diameter = 12,756 km (7,926 miles) Distance from Sun = 149.6 km (93 miles) Orbital period around Sun = 365.2 days The only planet not named after a Roman god. Earth's surface temperature fluctuates between -88°C (-112°F) and 58°C (136°F). Once believed to be the centre of the universe, we thank Copernicus for setting the record straight.

MARS

Diameter = 6,792 km (4,221 miles) Distance from Sun = 227.9 km (141.6 miles) Orbital period around Sun = 687 days Mars is home to the tallest mountain in the solar system, a shield volcano called Olympus Mons. Dust storms are a reality on Mars. They can last for months and cover the entire planet. This is due to its elliptical orbit path which causes extreme seasons.



The speed of light is 186,000 miles or 330,000 km per second. That will take you to Newfoundland in 1/60th of, or around the world at the equator ten times, in one second.

The speed of light is represented on this YPL solar system model by the velocity of one foot per second.

At this scale, our next door neighbour star (Proxima Centurai) would be located in Duncan, after going around the world once. Traveling at the speed of light, it would take over

SATURN four years to get there.

Handcrafted planet models donated by JoVic Pottery, jovicpottery.com

Display stands by John at schwarzefab.com

Brochure by Visual Life Stories

Diameter = 120,536 km (74,897 miles) Distance to Sun = 1,433.5 km (890.8 miles) Orbital period around Sun = 10,747 days

JUPITER

Earths could fit inside it.

Saturns rings are made up of chunks of ice and carbonaceous dust. They stretch 120,700km (75,000 miles) from the planet and are only 20 metres (65 feet) thick. Four spacecraft have visited Saturn - Pioneer 11, Voyager 1 and 2 as well as the Cassini-Huygens mission which continued to orbit, sending back information for years.

Diameter = 142,984 km (88,846 miles)

Distance to Sun = 778.6 km (483.8 miles)

Jupiter wins the most moons contest with 67!

Ganymede moon is the largest in the solar

Red Spot on Jupiter is a huge storm that has

raged on for 350 years and is so big that three

system and is bigger than Mercury. The great

Orbital period around Sun = 4,331 days

URANUS

Diameter = 51,118 km (31,763 miles) Distance to Sun = 2,872.5 km (1,784.8 miles) Orbital period around Sun = 30,589 days Referred to as an ice giant, Uranus is one of the coldest planets with an average surface temperature of -197°C (-322°F). There are two sets of rings, one first discovered in 1977 and second set discovered by the Hubble Space Telescope in 2003.

NEPTUNE

Diameter = 49,528 km (30,775 miles) Distance from Sun = 4,495.1 km (2,793.1 miles) Orbital period around Sun = 59,800 days Neptune has 14 moons and yes it has rings. The smallest of the ice giants, Neptune has an very active climate with large storms whirling around it's upper atmosphere. Winds can track around the planet at 600 metres (1,969 feet) per second. The largest storm ever recorded lasted five years and was called the Great Dark Spot.

PLUTO

Diameter = 2,390 km (1,485 miles) Distance to Sun = 5,870.0 km (3,647.2 miles) Orbital period around Sun = 90,588 days

Pluto is a minor planet and we are keeping it due to it's past service. Pluto is located in the Kuiper Belt an area of the outer solar system made up of small solar system bodies that are mostly ice. This area is home to other dwarf planets such as Haumea, Makemake, Quaoar, Ixion and Varuna. Together with Pluto these are known as the Trans-Neptunian Objects. The first mission to the Kuiper Belt arrived in July 2015.



MERCURY

Impressive"

Bob McDonald, host

CBC Quirks and Quarks

Our Yellow Point Lodge solar system model is scaled at one to one billion (1 / 1,000,000,000).



