### **INSTRUCTIONS & TIPS**

### BEFORE YOU BEGIN ANY OF YOUR EXPERIMENTS...

- Make sure to read all the instructions carefully
- Adult supervision is recommended for this activity.
- Keep small children away from the chemicals used in this activity.

### STEP 1: BUILDING & PAINTING YOUR SOLAR SYSTEM

Put the bush buses of the Sun (A). Upter (F) and Saturn (G) together by finding the matching half and building them together until
they are secure.

Jupiter is the largest planet in our solar system. Since it is so large, it is a great comet catcher and catches any passing asteroid or comet that passes.

- Take the metal eye hooks (K) and tuist on into the top of each model so they are secure. This will help you to hold your planet as you paint.
- Set the planets and Sun in front of you and make sure you have a cup of water nearby to nince the brush when finished.
   Op the tip of your paintrush (M) into the Gourn-ithe Gank paint (L), then cover as much of the sunface as you would like with the paint truth in a back and forth motion.
- Be sure to close the cap of the paint when you are done

### STEP 2: HANGING YOUR MODEL

- Unrayel your elastic cond and out it out (J) into ten 12in, septions.
- The one end of each cond to the metal hook (K) you screwed in to the top of each model.
   Have an adult helpyou to take the other end of the cond and hang it on your celling with tape so it is secure.



The planets in order from closest from farthest to the sun outward are: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune



Recharge the glow from your painted planets by exposing them to 30 minutes of light.



Theroury is the closest planet to the sun, but it still has lice on its surface! This is because there are permanently shadowed craters that never receive any sunfight.

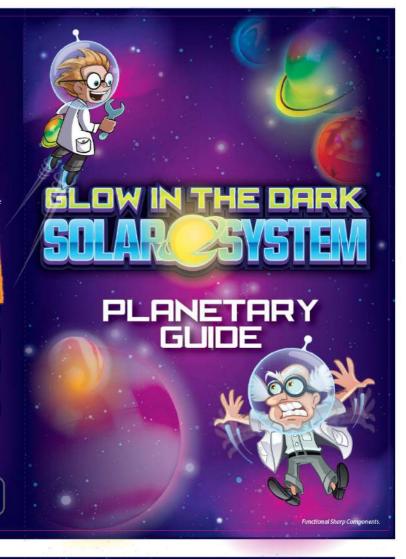
At night you can enjoy the glow from your planets!

FUN FACT

Venus is the brightest planet in our solar system, and can sometimes be seen with the naked eye. Vellow clouds of sulfurio acid reflect the Sun's light.

To complete your solar system, use the double sided adhesive dots/squares to secure the Glow in the Dark Stars and Moon (N) to your ceiling/wall.

WARNING! Not suitable for children under 3 years due to the presence of small parts which may present a chokin, hazard, functional sharp components and length of cord which may present a Strangulation Hazard. Take appropri precautions, as staining may occur to some materialissurface. Colours & contents may wary. Please retain this information for future reference.



## DISTANCE OF THE PLANETS FROM THE SUN

net's orbit isn't perfectly circular, it travels around the sun in an elip





MERCURY B









MERCURY













### SATURN

### **UENUS**



# EARTH

Homet Whitst Earth Isrn't the largest or smallest, horitest or coldest planet in our sclars system it is special as it is the only planet in our solar system with liquid water on the surface. Water covers 70% of Earth's surface.

Our almosphere is made mostly of altrogen and has plenty of exigen for us to breame. The armosphere also protects us from incoming meterorids, most of which break up in our almosphere before they can shrife the surface as meteorities. All of this and more means life can thinke on our plane turke any other?

### MARS

Mars, the red planet, is a cold desert world. It appears not because of rusty int in the ground that gets kicked up into the atmosphere of the planet.

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that Music cross hyd upster on its our face, for now under e that Mars once had water on its surface, but now we in clouds. We are trying to discover it Mars may have more actification of the future. Maybe or





### JUPITER



**URANUS** 

# **NEPTUNE**

flephune is dank, cold, and incredibly wholy if it is the furthest planet from the sun in our solar system. It is the only planet in our solar system not visible to the naked eye.

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Panet Tiges for Obert
Vescr Length: 185 Earth Vescrs
Glag Length: 19 Hours
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### OTHER PLACES OF INTEREST IN OUR SOLAR SYSTEM

Unlike any other planet Uranus rotates on an almost 90 degree angle so appears to orbit the Sun like a rolling ball. Smilarly to Unius, Uranus rotates in the opposite direction as most other planets. Best, like Saturn is surrounded by prings but they are much fainter than Saturn's famous rings.

The atmosphere of Uranus is made of hydrogen and helium like Jupiter and Saturn, but it also has methore and it is this methore that makes Uranus

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### DID YOU KNOW?

·Uranus' axis is at a 97 degree angle, which means it is lying on its side as it orbits the sun.
·Deptune is so far away from the sun that it takes 165 Earth years to orbit the sun.
·Saturn may be the second largest planer, but it is also the lightest. If there was a pool big enough to hold
Saturn, it would float!