



# Tour the Universe! A museum guide exploring REALMS Beginner

## The Earth-Moon Realm

Shoot for the Moon **4**  
Upper Level



**Fact:** The Moon moves around the Earth. It doesn't look the same every time we see it. The way it looks changes during a month.



**Find and Try:** Model of the Moon. Walk around it and look at it from the front and from both sides.



**Think:** Sometimes the Moon is a full moon, and we can see all of the front side of it. Stand where you can see how the Moon looks when it's full. Look at the Moon tonight and see what it looks like.

Shoot for the Moon **4**  
Upper Level

**Fact:** The Moon is made up of rocks, just like the Earth is.



**Find and Try:** Moon rock. Look at the rock.



**Think:** What about it looks the same as rocks you've seen on Earth? What about it looks different? Why might that be? Find other rocks in the gallery and compare them, too.



In your class, there are lots of different ways you could put the people into groups. You could make groups based on people's birthdays, or whether they wear glasses or not. The Universe is the same way. It's really big, so we have made groups out of the things in the Universe. These groups are called the Earth and Moon realm, the Solar System, the Milky Way Galaxy, and the Universe of Galaxies. This guide will help you find things in the museum to help you think about these groups.



## How to use this guide

**Fact**



This symbol represents a **fact** that you can use.

You'll see this symbol when you need to **find** something in the museum.



**Find it!**

**Think!**



This symbol is something to try, or something to **think** about.

Use these numbers and the maps on page two to find your way around.



## The Solar System

Our Solar System Gallery **1**  
Upper Level



**Fact:** The Sun, eight planets and lots of moons are in our Solar System. All the planets in the Solar System go around the Sun. The Sun makes day and night, and the seasons.



**Find and Try:** Giant Sun. Look at the Sun. Compare it to the planets hanging from the ceiling.



**Think:** Is the Sun bigger or smaller than the planets? Do you think that every planet has a daytime and a night time? Why or why not? Draw a picture of something you do during the day when the Sun is up, and something you do at night, when the Sun is down.

CyberSpace Gallery **2**  
Lower Level

**Fact:** Planets go around a sun, and moons go around planets.



**Find and Try:** Cyberspace. Floor sign. Look at the pictures on the sign.



**Think:** What do you think the pictures are? Play a game where you can only hop on pictures of planets.





# Tour the Universe! A museum guide exploring REALMS Beginner

## The Milky Way Galaxy

### The Milky Way Galaxy Gallery ③ Upper Level



**Fact:** We are inside the Milky Way Galaxy. Almost everything we see in the sky at night is inside the Milky Way, too.



**Find and Try:** Benches that have a short glass wall with the Milky Way carved in it. Feel the glass.



**Think:** Look at the picture of the Milky Way in the glass. Why do you think people called it the Milky Way when they saw it a long time ago? Look for other pictures of the Milky Way around the museum.

### The Milky Way Galaxy Gallery ③ Upper Level

**Fact:** Sometimes, stars seem to make a picture in the sky. We call these pictures constellations.



**Find and Try:** Benches with a yellow ball in the middle. Take turns sitting inside the ball.

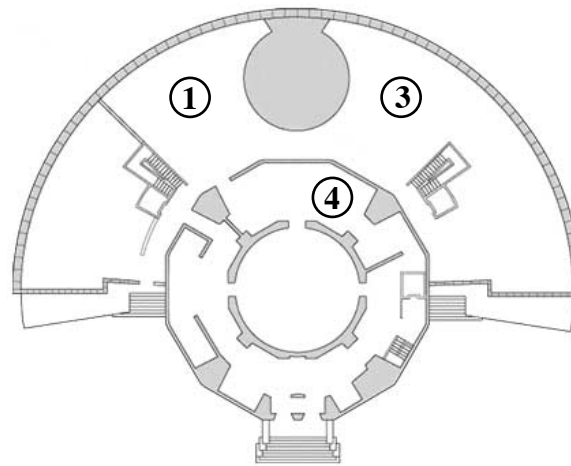


**Think:** What do you think that the holes are supposed to be? Do they make pictures? Draw the holes as you see them. Make a picture around them and name it.

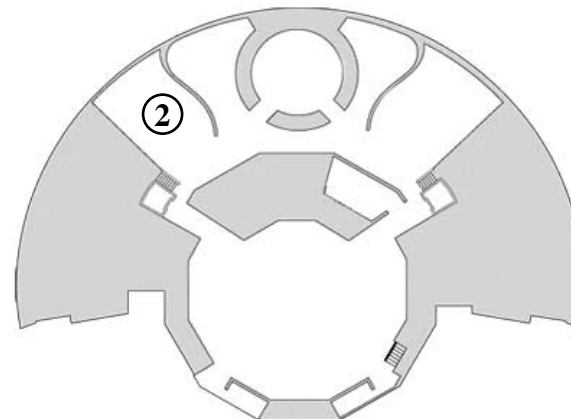


## MAPS

### Upper Level



### Lower Level



## The Universe of Galaxies

### The Milky Way Galaxy Gallery ③ Upper Level



**Fact:** There are so many galaxies in the Universe that we can't even count them. Galaxies have stars, planets and moons inside of them.



**Find and Try:** The back wall of the gallery that faces the beach.



**Think:** Look at the beach. We think that there are as many galaxies as there are grains of sand on all the beaches in all the world. Have you ever been to a beach? How much sand was there? Do you think you could count every grain? How many grains do you think there are? The next time you're at the beach, pick up a handful of sand and try to count the grains.

### The Milky Way Galaxy Gallery ③ Upper Level

**Fact:** There are different kinds of galaxies.



**Find and Try:** The silver plate with galaxies etched on it.



**Think:** Do all of the galaxies look the same? Why do you think galaxies have different shapes? Make a rubbing of one of the galaxies using your pencil.

