



Introduction: Exploring the Structure of the Universe

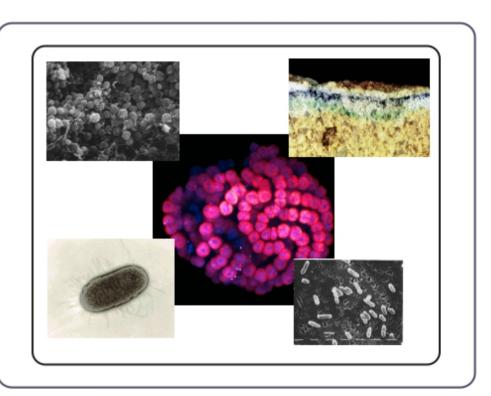
Before entering the exhibit, fill in the blanks using the following key words.

galaxy Universe 100 billion	orbit Earth	Solar System Jupiter	moon planets	star Sun	
The Sun is a	locate	ed at the center of our		Our	
home, called, is one of 9 planets that orbit around the					
Earth has one that orbits around it each month, showing different					
phases. Some planets have many moons that around them.				ind them.	
is the largest planet in the Solar System and has 64 moons!					
Our sun is one of about stars contained in the					
we call the Milky Way. Astronomers are now discovering					
Jupiter-sized that orbit around some of those distant stars. Outer					
space is even bigger yet because the Milky Way is only one of an estimated 100					
billion (100,000,000) galaxies in the! 1					

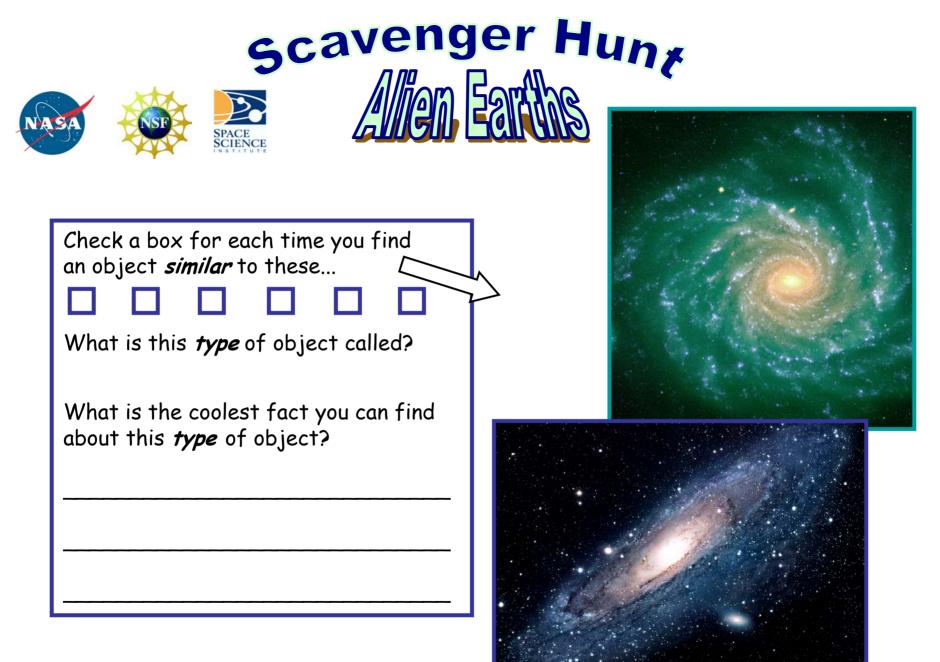




What type of life form has the greatest population on Earth? (check one)	
🔲 Humans & Animals	
Plants	
Microbes	
List 3 places where microbes can live	
1	
2	
3	

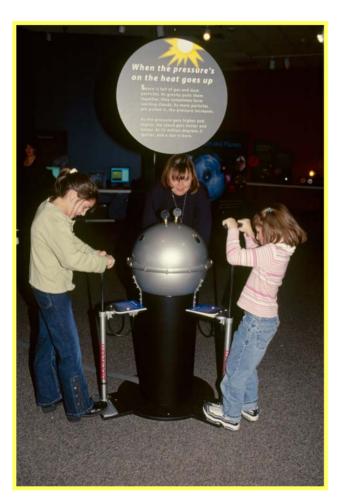


SPACE SCIENCE









Find this object. What do you do with it?

How is it related to stars?

Scavenger Hunz





Infrared Camera

Find the infrared camera. Place your hand under the camera.

What part of your hand is warmest?

What part of your hand is coolest?

How do you know? What does the infrared camera "see" that we cannot see directly with our own eyes?

Infrared cameras can see through clouds of dust to see the heat of new stars forming!!



Show what part of your hand is warmest? What part is coolest?

Rub your hands together. How does the infrared image change?





Scavenger Hunz





Find 3 places where there are planets in the exhibit. What did you do or learn there?



2._____ 3.____

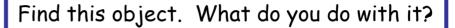
What is the coolest fact you can find about planets and how we find them orbiting around distant stars?







Number of Stars





Put one spoonful of salt on the balance. How many grains of salt was this?

How do we know how many stars there are? Do we count them one by one? Do we weigh them?





Find these numbers and draw lines between the boxes to match them to what they mean.

10⁷ (10,000,000 = 10 million)

100 billion

9

5 million

1 trillion

- Number of planets that orbit our sun
- Number of salt grains in a Milky Way Stars can.
- Diameter of Earth in meters
- Number of microbes on your body
- Number of stars in the Milky Way

Other numbers you like ...

What these other numbers mean...

2.

_____ 1. ____