

39 - Moon

We all know the Earth revolves around the Sun -- but do you know what the Moon revolves around? That's right -- us! The Earth. But how long does it take for the Moon to revolve around the Earth? A week? A month? Six months? A year? If you said about a month, you're right!

Now, unless you're a Werewolf, chances are you enjoy seeing the moon at night. Of course, sometimes you can see it during the day. And it's not always visible at night thanks to clouds or fog or the position of the Sun. But trust us, it's there!

Questions We Answer on Today's episode:

1. What is the Moon made of?
2. How long would it take to drive to the Moon if you drove 100 mph?
3. What does the Moon smell like?
4. How does the Moon affect the ocean?
5. How cold does it get on the Moon?

Grow Their Mind

The Moon is made up of mostly iron and its mantle, the middle layer, is made up of rocks and elements similar to Earth's and its nearest neighboring planets. Knowing this could actually give us a big clue as to how the moon came to be.

Some scientists say the Moon isn't just *like* the Earth -- but that it's actually a part of Earth -- formed when debris from Earth collected in orbit and turned into a single object! Now, we don't know for sure if this is how the Moon was formed, but it makes a lot of sense. Did you know that Earth isn't the only planet to have a moon? In fact, Mars has two of them and Jupiter has seventy-nine!

Activities

Why are there craters in the moon?

For this activity you will need

4 cups of flour

1/2 cup of baby oil

small pebbles or rocks

Round cake pan

Combine the flour and baby oil and then place in the cake pan. Have your explorers drop the pebbles in the flour and see what happens! The Moon is often hit by asteroids, creating craters on the surface.

Phases of the Moon: Gather some play dough, clay, or other medium and create one circle, two half circles and two crescents. Line them up and talk about the phases of the moon. Here is a great resource to read with your kids! [Phases of the Moon](#)

Additional Resources

1. Science Experiment: EDIBLE Planets -

Why is Neptune blue? Is Saturn the only planet with rings? How many Earths could you fit inside Jupiter? Here is an [easy, flexible activity from our friends at Everyday Einstein](#) that introduces size scales and cool planet facts for the planets in our solar system... and let's you have a tasty treat at the end!

2. Want to learn about the Moon from NASA, just like a real astronaut? [Learn about the Moon from NASA!](#)

3. What do you do on a 3-day road trip? How about a 3-day road trip to the MOON? That's exactly how long it took the astronauts to get to there. Learn more about the journey in the short & fun video [Road trip to the Moon.](#)

4. Wish you could ask an astronaut a question? These kindergartners got to ask a modern astronaut some questions. [See what his answers were!](#)

Kid News

Have you ever met a kid who uses crutches or a wheelchair? There are many reasons why a kid might need to use these items but a common reason is Cerebral Palsy. Cerebral Palsy is a condition where the body's muscles are affected because of a brain injury. Kids with Cerebral Palsy are no different; they love to spend time with their friends, have favorite sports teams and play games and sports. The equipment they need might look a little different than the equipment you are used to using, just like you might have sneakers that are different from someone else's because they work better for YOU. Read about 12 year old Zander and his first pair of hockey skates. How did you feel the first time you got your first pair of skates or bike? [Zander and his hockey skates](#)¹

¹ This activity guide is for the Who Smarted? podcast www.WhoSmarted.com

