AUDIENCE WITH AN ASTRONAUT
SPACE FOUNDATION

MOON GEOLOGY

AT HOME ACTIVITY

EXPLORE DIFFERENT ROCKS

- Take a close look at the different rocks we've provided. Pay attention to their colors, textures, and shapes.
- Discuss what makes each rock unique. Do they remind you of anything you've seen before, like rocks at the beach or in the mountains?

MEASURE ROCK DENSITY

- Use the scale to measure the mass of each rock.
- Use a graduated cylinder or beaker to measure the volume of water and note down this amount.
- Submerge each rock in the water and measure the change in water level.
- Calculate the density of each rock by dividing its mass by its volume.

COMPARE ROCKS

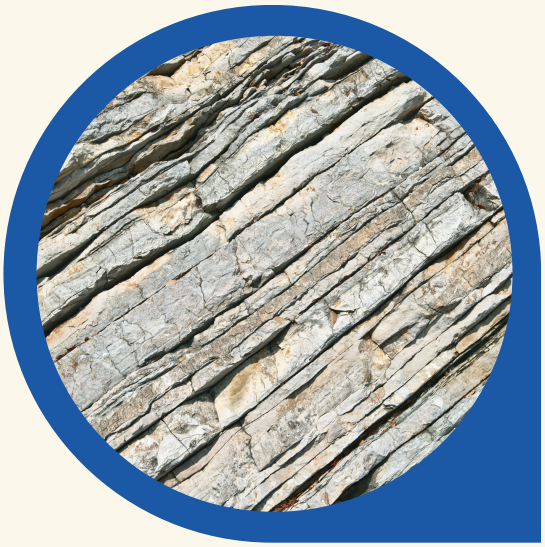
- Take a moment to think about what you've found out. Are there any rocks that are similar in terms of density? Are there any patterns or differences?
- How can comparing and analyzing the rocks we have lead us to learn more about the moon's rocky surface?

MATERIALS

- Various rock samples (igneous, sedimentary, and metamorphic)
- Triple-beam balance or digital scale
- Graduated cylinders
- Water
- Calculator
- Worksheets for data recording
- Safety goggles

UNDERSTANDING MOON GEOLOGY

Understanding the geological history of celestial bodies involves classifying rocks by their visual and compositional characteristics and evaluating properties like density. Earth's rocks are categorized into three main types: igneous, sedimentary, and metamorphic, based on factors such as mineral composition and texture. Density, which measures mass per unit volume, varies with factors like composition and porosity, playing a crucial role in decoding the history and formation processes of Earth and other celestial objects.



THE GEOLOGY OF THE MOON

- Dive into the intriguing world of lunar geology with a hands-on experiment that will make you feel like a real space scientist.
- Ponder how understanding the classification and density of moon rocks can unravel the moon's hidden history and evolution.
- Discover the wonders of space geology right in your classroom and let your curiosity guide you through the exploration of these fascinating celestial objects. Enjoy the experiment, and prepare to unveil the mysteries of the moon!

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