




ADA TWIST, SCIENTIST BY ANDREA BEATY





ACTIVITY #1: WHY DOES THE MOON CHANGE SHAPE?

SUPPLIES

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- Pencil or pen
 - Lamp or light source
 - Foam ball
 - Science notebooks/ Moon Tracker sheet
 - Cell phone camera (optional)

INSTRUCTIONS

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1. Place the lamp on a table you can stand near.
 2. Carefully, push the pencil into the middle of the foam ball (the moon).
 3. Turn on the lamp (the sun) and turn off the room lights.
 4. Hold the pencil with the ball out at arm's length.
 5. With your arm held out straight, turn your whole body slowly to the left.
 6. Take a photo of what you see each 1/8th of a turn.
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WHY DOES THE MOON CHANGE SHAPE? OR DOES IT?

ANSWER:



The moon does not change, but we can't always see all of it!

Since the moon does not make its own light, we can only see it when it reflects the sun's light. The amount of the moon we can see depends upon its position compared to the sun and the earth. The moon is always in motion as it orbits around the earth while the earth is always in motion orbiting the sun.



When the part of the moon we can see is growing larger each night, we say that it is waxing. When the moon is completely visible, it is a full moon. After that, we see less of the moon each night. That is called waning. A crescent moon is just a sliver of the moon and a gibbous moon is almost completely full.

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ACTIVITY #2: SCENT MEMORY GAME

SUPPLIES

- 3 or 4 smelly objects, 2 of each (examples: pickles, coffee beans, vanilla, oranges, toothpaste, fresh herbs, etc...)
- Jars, glasses or cups
- Plastic wrap
- Pencil
- Blindfold or scarf

INSTRUCTIONS

- Smell matching. Place 2 of each smelly object in the containers you've gathered. The objective is to smell each jar when blindfolded and then match the two jars that have the same scent.
- Cover each container with plastic wrap and puncture holes in the top with your pencil.
- Mix up all of the jars, so that you do not know which is which.
- Put a blindfold on your child and have them smell each jar. Set aside their "scent matches" until they have matched all of the smells.
- Discussion time! Talk about the smells. Which were the strongest smells? Which were the weakest? Which scents got matched together accidentally? Why do you think that is?

