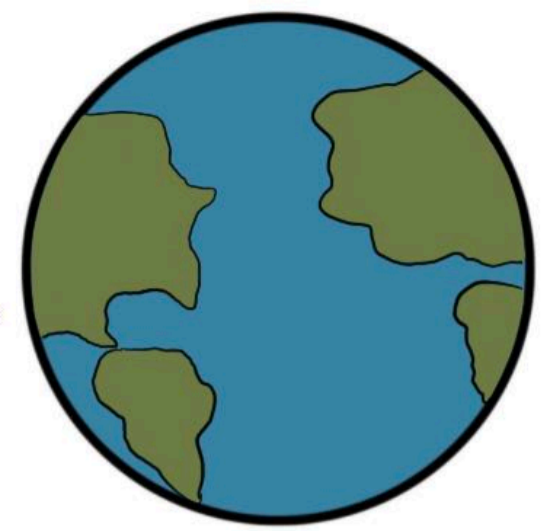


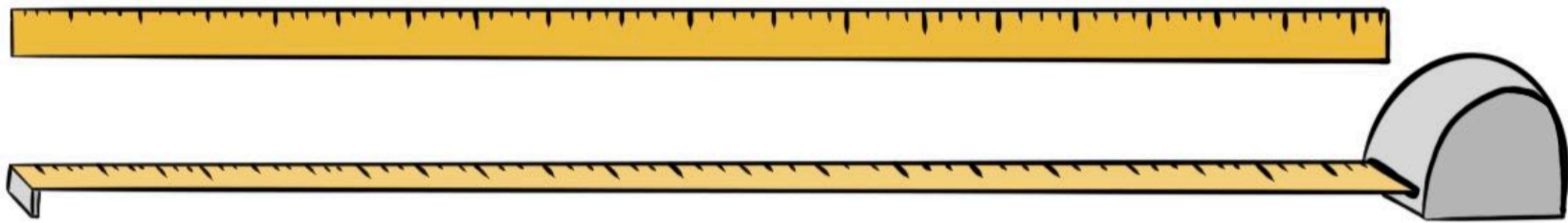
Moon Jump



Can you jump higher on the moon than on Earth?

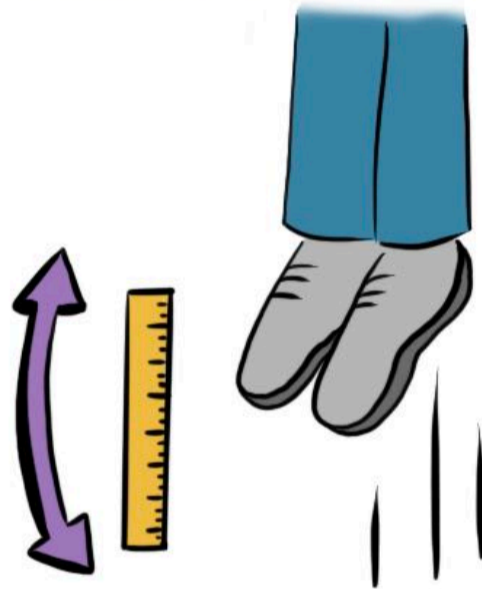
What you need:

Measuring devices for length (meter stick, measuring tape, etc.)



What you do:

1. Ask a friend or family member to mark the distance from the floor as you jump as high as you can.



2. Take the amount (for example 21 inches) and multiply that number times 6. You can also add the number 6 times to get the same answer. (Example $21 \times 6 = 126$ or $21 + 21 + 21 + 21 + 21 + 21 = 126$)
3. Compare the original number (how high you can jump) to the new number (the height you could jump on the moon).
4. Which number is larger?

Why:

Gravity is pulling you down when you jump. The moon has far less mass than the Earth (about 80 times less). The gravity on the moon is (80 divided by 14) six times as weak as it is on Earth. That means your jump will always be 6 times as high on the moon!