

Name _____

Date _____

Paws & Effect: Step it Up



Objective

To explore how scientific discoveries lead to new technologies, and analyze how large measurements can be expressed in terms of smaller measurements

Materials

- Stuffed Animal
- Camera
- Ruler
- Marker
- Phone/Tablet with Stop Motion Studio App
- Tripod or items to prop up camera

Instructions

1. Lay the paper down and measure a 10-inch line with a ruler.
2. Draw a line down the path with your marker, with perpendicular lines at the starting and ending points.
3. Place the stuffed animal at the starting point and move it forward one step.
4. Measure the distance from where the step started to where it ended (rounding to the nearest inch). Record it in the box below.
5. Measure the distance between a human step's starting and ending points (rounding to the nearest inch). Record it in the box below.
6. Move the stuffed animal back to the starting point.
7. Move the stuffed animal forward one step.
8. Take a picture with the camera and repeat steps 7 and 8 until the animal has moved across the 10-inch line.
9. Refer to the Stop Motion Studio Instructions to string your movie together.
10. Calculate how far a human would have to walk to match the stuffed animal.

Human Steps:

Stuffed Animal Steps:

$$\frac{\boxed{}}{\boxed{}} \times 10" = \underline{\hspace{2cm}}$$