Human Shapes

Thank you for downloading the science and mathematics activity packet! Below you will find a list of contents with a brief description of each of the items. This activity packet contains all the information (including any handouts) you will need to run this activity in your own classroom or at a science festival.

Please note: some activities might require the need for a facilitator to be present to oversee the activity. Activities that require a facilitator will be clearly noted.

-Community Resources for Science

Human Shapes

ACTIVITY PACKET CONTENTS

1. Organizer Instructions for the person running the activity
    - Print suggestion: 1 for the facilitator
    - Includes information for setup prior to the event (e.g., materials prep)
2. Participant Instructions (tabletop sign/printout)
    - Print suggestion: 1-2 to put in a plastic sign holder

Human Shapes

ORGANIZER INSTRUCTIONS

Grade(s): K-3

Standard connections:

- **CCSS.Math.Practice.MP5** Use appropriate tools strategically
- **CCSS.Math.Practice.MP2** Reason abstractly and quantitatively
- **CCSS.Math.Content.K.MD.A.1** Describe and compare measurable attributes
  - Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.

Next Generation Science Standards: Science and Engineering Practices

- **Using Mathematics and Computational Thinking** Describe, measure, and/or compare quantitative attributes of different objects and display the data using simple graphs

Objective: Recognize shape attributes and obtain relative object measurements

Activity overview and background: Student-directed activity to be completed in pairs

A facilitator can model how to obtain measurements, if needed

Materials:

- 1 long string (1 piece for each student)
- 1 pair of scissors per 2 students
- Pencil or other writing utensil
- Paper (for recording measurements)

Setup:

1. Give each student a long piece of string, a pair of scissors and paper to record/draw their answers

Instructions

Are you a tall rectangle, a short rectangle, or a perfect square? Do this activity and find out!

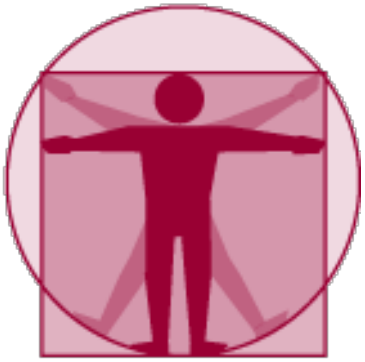
1. Use the string to measure your height. Have a partner cut the string to exactly your height. Then do the same for your partner.

2. Using your own string, have your partner help you hold the string along your outstretched hand.

- If the string is longer than your reach, you are a **tall rectangle**
- If the string is shorter than your reach, you are a **short rectangle**
- If the string is about the same length as your reach, you are a **perfect square**

3. How many times does your height:

- Go around your head?
- Go around your waist?
- Go along the length of your foot?
- Go around your wrist?



4. Find two things that are:

- The same as your height
- Shorter
- Longer or taller