

Math Activities

The Heads In, Hearts In family enrichment program encourages families to use their minds (putting their “heads in”) as a tool to expand their knowledge around a variety of topic areas. By creating a shared educational experience, the family unit will work, grow and learn together, putting their “hearts in” to the process.

This unit contains the following:

- ▶ 3D Shapes
- ▶ Eggs-cellent Counting
- ▶ Guess Which Shape
- ▶ Gumball Equations
- ▶ Hungry Hedgehogs
- ▶ Marshmallow Structures
- ▶ Measure a Room
- ▶ Measurement Equivalents
- ▶ Measuring Liquids
- ▶ Photo-Graph
- ▶ Pie Die
- ▶ Skippy Clippy
- ▶ Spinner Math
- ▶ Stories Math
- ▶ Time: Before and After
- ▶ Twisting Place Values

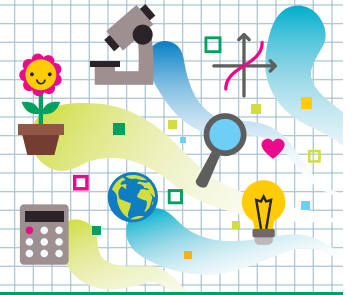


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HEADS IN, HEARTS IN

Measure a Room Instructions for Set-Up

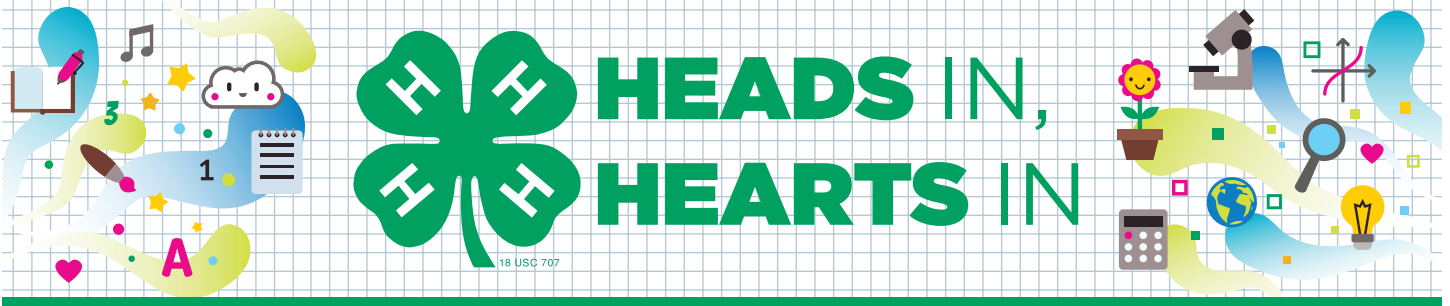


Supplies

- “Guide for Families” handout
- Clear plastic standup display (optional)
- “Measure a Room Example” handout
- “Measure a Room” handout (1 per participant or family)
- 5 medium plastic totes with lids
- 5 kitchen items such as a small plate, cup, placemat, fork or spoon, straw, potholder, bowl or measuring cup
- 5 bathroom items such as a toothbrush, tube of toothpaste, brush or comb, roll of toilet paper, bar of soap, tweezers or cotton swab
- 5 office items such as a notepad, book, keyboard, box of markers, stapler, mouse, scissors, tape dispenser or pen
- 5 living room items such as a remote control, picture frame, coaster, book or magazine, CD or DVD, candle or phone
- 5 bedroom items such as a clock, slipper, sock, hanger, perfume or lotion container, small stuffed animal, small mirror or box of tissues
- Painter’s tape
- Marker
- Several rulers, yardsticks or sewing tape measures
- Sharpened pencils
- Display table

Activity Preparation

- ▶ Purchase or locate items on supply list.
- ▶ Print one copy of the “Guide for Families” handout. Laminate or place in a clear plastic standup display to allow participants to see it more readily.
- ▶ Print one copy of the “Measure a Room Example” handout. Laminate if desired.
- ▶ Print one copy of the “Measure a Room” handout per participant or family.
- ▶ Keeping with the theme of rooms, place five selected items that belong in each room into the tote and place the lid on the tote. Place a piece of painter’s tape on top of the box and using the marker, write down the name of the room (example, “bathroom”).
- ▶ Set up the display table and arrange needed supplies.



Measure a Room

Guide for Families

Learning Objectives

What you need to know:

Measurement is what you do when you're trying to find the size of something. Measurement is a part of everyday life. Whether we're cooking, buying clothes, playing sports or estimating whether an object will fit in a particular location, we need to know how to use a ruler, yardstick, tape measure and other measuring instruments accurately.

What you will do and learn:

In this activity, you will choose a room (tote) and measure commonly found items in that room for length, width or height using two different units of measurement. The **U.S. Standard System** uses inches (in.), feet (ft), yards (yd) and miles (m). The **metric** system uses millimeters (mm), centimeters (cm), meters (m) and kilometers (km). You will measure a variety of items using both the **U.S. Standard System** and the **metric** system.

Instructions

1. Take a "Measure a Room" handout and a pencil.
2. Choose a tote and open the lid.
3. Using the "Measure a Room" handout (and looking at the "Measure a Room Example" handout for help), write the name of the room in a section next to the word "Room." Then write the name of the first object you will measure under "Item 1."
4. Measure the item using both the U.S. Standard System and the metric system.
5. Items may be measured for length, width or height. You get to choose.
6. On the handout, record your measurements for the U.S. Standard System by writing the number in the box to the right of Item 1 and under the "U.S." column. Check the unit of measurement (inches, feet or yards). Next record your measurements for the metric system by writing the number in the box for Item 1 under the "Metric" column. Circle the unit of measurement (millimeters, centimeters or meters).
7. Continue on in the same way for the other items in the tote. When you've measured all of the items from that room, place the items back in the tote.
8. Choose a new room (tote) and measure the items, recording your measurements on the handout.
9. See if you can measure all five rooms!

Measure a Room

Measure a Room Example Handout

Example Room: Bathroom

	U.S. (Check the unit of measurement)		Metric (Check the unit of measurement)	
Item 1 Tissue Box	8	<input checked="" type="checkbox"/> inches <input type="checkbox"/> feet <input type="checkbox"/> yards	20	<input type="checkbox"/> millimeters <input checked="" type="checkbox"/> centimeters <input type="checkbox"/> meters
Item 2		<input type="checkbox"/> inches <input type="checkbox"/> feet <input type="checkbox"/> yards		<input type="checkbox"/> millimeters <input type="checkbox"/> centimeters <input type="checkbox"/> meters
Item 3		<input type="checkbox"/> inches <input type="checkbox"/> feet <input type="checkbox"/> yards		<input type="checkbox"/> millimeters <input type="checkbox"/> centimeters <input type="checkbox"/> meters
Item 4		<input type="checkbox"/> inches <input type="checkbox"/> feet <input type="checkbox"/> yards		<input type="checkbox"/> millimeters <input type="checkbox"/> centimeters <input type="checkbox"/> meters
Item 5		<input type="checkbox"/> inches <input type="checkbox"/> feet <input type="checkbox"/> yards		<input type="checkbox"/> millimeters <input type="checkbox"/> centimeters <input type="checkbox"/> meters

Measure a Room

Measure a Room Handout

Room:

	U.S. (circle the unit of measurement)		Metric (circle the unit of measurement)	
Item 1		<input type="checkbox"/> inches <input type="checkbox"/> feet <input type="checkbox"/> yards		<input type="checkbox"/> millimeters <input type="checkbox"/> centimeters <input type="checkbox"/> meters
Item 2		<input type="checkbox"/> inches <input type="checkbox"/> feet <input type="checkbox"/> yards		<input type="checkbox"/> millimeters <input type="checkbox"/> centimeters <input type="checkbox"/> meters
Item 3		<input type="checkbox"/> inches <input type="checkbox"/> feet <input type="checkbox"/> yards		<input type="checkbox"/> millimeters <input type="checkbox"/> centimeters <input type="checkbox"/> meters
Item 4		<input type="checkbox"/> inches <input type="checkbox"/> feet <input type="checkbox"/> yards		<input type="checkbox"/> millimeters <input type="checkbox"/> centimeters <input type="checkbox"/> meters
Item 5		<input type="checkbox"/> inches <input type="checkbox"/> feet <input type="checkbox"/> yards		<input type="checkbox"/> millimeters <input type="checkbox"/> centimeters <input type="checkbox"/> meters