



## Heating and Cooling Activity for Kids

### Rainbow Crayon DIY

 Duration: **20–40 min**    Difficulty: **Medium**    Cost: **\$0 to \$5**

Use heating and cooling to make a liquid rainbow from crayons!

### Material List

- 7** Crayons with paper peeled off
- 1** Hair Dryer
- 1** Piece of paper
- 1** Cardstock 9 x 12
- 1** Glue stick
- 1** Double sided piece of tape
- 1** Pair of safety goggles

### Instructions

- 1** Line up your crayons in the color order of a real rainbow.
- 2** Glue a piece of paper to the cardboard using a glue stick.
- 3** Attach the crayons to the top center of the paper using the tape.
- 4** Lean your cardboard at an angle against a few books.
- 5** Put on your safety goggles.
- 6** With the help of an adult, heat the tips of the crayons with the hairdryer.
- 7** Do not to touch the melted crayons until they have had time to cool.

**Tip:** Some hairdryers get hotter than others, make sure yours is a strong one.

**Warning:** This activity can be messy, be sure to protect the area you are working in.

### How It Works

When you heated up the solid crayons, you caused the crayons to melt. The solid crayons became a liquid and dripped down the paper. As the liquid crayons cooled, they became a solid again. This activity is an example of a reversible change, since the melting was reversed once the crayons had a chance to cool.