

## Science 7 – Heat and Temperature

Outcome	Activity title / description	Notes	Non- Consumable materials	Consumable materials	School provided materials
2	Baffle your skin	See SF 7 p. 193	Ice cream pails or large yogurt containers, kettle, thermometer		
2	Make your own thermometer	Adapted from SF p. 196	Plastic juice bottle	Food coloring, rubbing alcohol, modeling clay, plastic drinking straws	
2	Calibrate a Thermometer		250 mL flask, 2 holed rubber stopper, thermometer, glass tubing	Food coloring, masking tape	
3	The Right Device	Demo or done in class	Thermocouple, bimetallic strips, fever thermometer, strip thermometer, mood ring, alcohol burner,		
2	Heat Conduction Apparatus		Heat conduction apparatus, methanol burner, metal pan	Wax candle, matches	
2	Absorb that Energy	See SF7 p. 227	Lamp, thermometer, ruler	Pop cans, black paint, white paint, cooking oil, aluminum foil	Dark paper, light paper, rubber bands
2	Expanding solids	See SF7 p. 212	Copper wire, 200 g mass, ball and ring apparatus, methanol burner, lab stands, C-	Candles, matches	Meter stick

			clamps,		
2	Expansion and Contraction of Liquids	See SF p. 216	3 large test tubes, 3 one hole stoppers with glass tubing, hot plate, 500 mL beaker	Water, alcohol, vegetable oil, food coloring, rubber band	Felt marker
3	Keep it Warm or Cool	See SF p. 250 Student will provide most materials. Students who do not build a container, will do the experiment using a beaker or coffee cup.	Thermometer, graduated cylinder, kettle, beakers, stopwatches		Hot water, ice
2	Plateau problem	See SF p. 222	Beakers, thermometers, hot plates, stir sticks, oven mitts	water	