

# Responding to Patterns of Change

## Materials List

### **Chapter 2, When Natural Events Become Natural Disasters**

#### **Engage Materials**

none

#### **Explore Materials**

##### **For the entire class:**

- 2 copies of Master 2-1, *Station Instruction Cards*, cut apart and laminated
- 2 desk lamps (each with a bright lightbulb, 60 or 75 W)
- 4 cups of potting soil
- 4 beakers or cups
- 2 small dishpans
- 4 plastic bottles, 2 L soft-drink type
- 2 sling psychrometers
- 2 sturdy stands (to hold the sling psychrometers)
- 2 cookie sheets
- 2 plastic spray bottles with water
- 2 relative humidity calibration charts (which come with the psychrometers)
- 2 Tornado Tubes
- 2 pitchers of water
- 2 water disposal containers
- 2 small, clear drinking glasses
- 2 large glass jars
- 2 votive candles
- 2 boxes of safety matches
- 6 pairs of safety goggles
- 4 thermometers
- 4 pieces of cardboard (2 for the drought stations, 2 for the hurricane stations)
- 12 sticks of brown modeling clay
- small, plastic toy houses or buildings
- tape

**For each station:**

(The materials below are included in the list for the entire class above. The list below clarifies which item goes in each station.)

**Station 1: Fires**

- 1 drinking glass
- 1 large glass jar
- 1 votive candle
- 1 box of safety matches
- 3 pairs of safety goggles

**Station 4: Hurricanes**

- 1 psychrometer setup
- 1 calibration chart

**Station 2: Droughts**

- 1 desk lamp
- 2 thermometers
- 2 beakers or cups of soil
- 1 cardboard shade

**Station 5: Tornadoes**

- 1 tornado-in-a-bottle setup

**Station 3: Floods**

- 1 floodplain setup
- 1 pitcher of water
- 1 water disposal container

**Explain Materials****For each student:**

- 1 copy of Master 2-2, *Natural Events*
- pens or pencils of different colors

**Elaborate Materials****For each team of 3 students:**

- 3 copies of Master 2-3, *Tornado Data Set 1*
- 4 pencils or markers of different colors (blue, green, yellow, red)
- 3 copies of either Master 2-4, *Tornado Data Set 2*, or Master 2-5, *Tornado Data Set 3* (half of the teams will analyze data set 2, and half of the teams will analyze data set 3)
- 3 copies of Master 2-6, *Tornado Data Set 4* (optional)

**Evaluate Materials****For each student:**

- chart paper or poster board (see Advance Preparation)
- art supplies (markers, scissors, tape, glue)
- sticky notes (the 3 × 3 in size work well)
- pens or pencils of different colors