

# Heat

## Lesson 2

There I was: by day the **heat** consumed me, and the cold by night, and my sleep fled from my eyes. Genesis 31:40

# Atom Quiz

- Take atom parts quiz.
- Show hand boiler.

# What happens to particles as they are heated up or cooled down?

- Do balloon on bottle demonstration.
- Have the students pretend to be molecules. Have the students pretend to be molecules when it is cold. Then pretend to move like the molecules when heat is added. Say freeze and see where the students are.
- Do water activity: one cold bowl of water and one hot bowl of water; put a few drops of food coloring in each and see what happens

# What happens to particles as they are heated up or cooled down?

- When particles are heated, the atoms start to vibrate more quickly and spread apart.
- When particles are cooled, the atoms start to vibrate more slowly and come closer together.
- Show hand boiler again.