Name \_

Date \_\_\_\_\_ Period \_\_\_

LESSON

## Purpose

To build a model to explain how your nose detects different smells.

How Does the Nose Know?

**Receptor Site Theory** 

## Materials

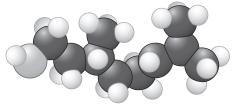
- poster paper
- different-colored markers

## Instructions

- **I.** Today you will be designing a model for smell and illustrating how it works on a poster. Your model should
  - Explain how a smell reaches the nose.
  - Explain the chemistry involved in smelling something.
  - Explain how we perceive or interpret the smell in the brain and relate it to other experiences.
- **2.** Once you have finished your model, give it a descriptive name, for example, the molecular mass model.
- 3. Summarize your model in one or two sentences at the bottom of your poster.
- **4.** Be prepared to present your model to the class. For example, be prepared to describe how your nose is able to detect the difference between the two molecules shown here.



Ball-shaped molecule



Stringy molecule