

## ACTIVITY

### ● Staying in Focus

1. Take a short piece of **string**, and pin both ends to a **piece of paper** with two **thumbtacks**.
2. Pull the string taut with the point of a **pencil**. Use the pencil to trace out the path of an ellipse, keeping the string stretched tight at all times.
3. Change the distance between the thumbtacks to change the shape of the ellipse.
4. How does the position of the thumbtacks (foci) affect the ellipse?

