



Name \_\_\_\_\_

Period \_\_\_\_\_

Date \_\_\_\_\_

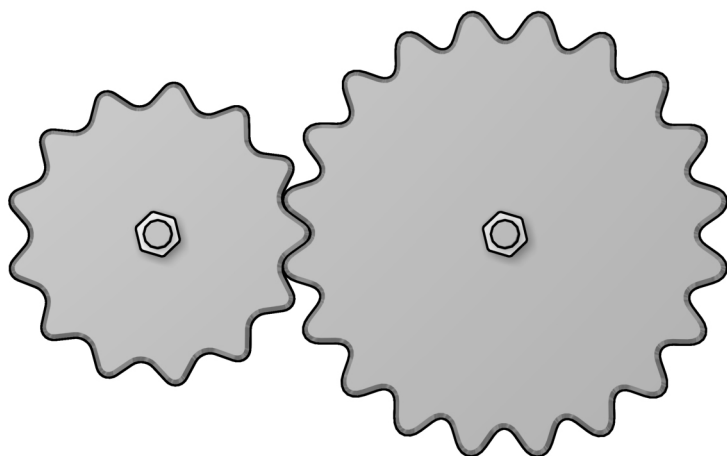
OBSERVING

# Making Quantitative Observations

While qualitative observations are descriptions, **quantitative observations** are expressed in numbers and include records of time, temperature, mass, distance, and volume. Scientists make quantitative observations whenever possible. That way, others will know exactly what was observed. It is much easier to compare quantitative observations from different experiments than it is to compare qualitative observations.

**MATERIALS**  
metric ruler

Observing



Record as many quantitative observations as you can about the gears in the diagram to the left. Remember that observations are just that; do not go beyond observing by trying to explain anything about the gears.

Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Challenge** You probably already know a few things about gears and their function. Is this knowledge helpful to making your observations? Explain why or why not.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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