



General Mercury wants you to investigate mechanisms – gears.

General Mercury wants you to observe what happens when you change the gear setting on a bike.



My drawing of a gear:

Stretch:
Make observations about gears on a bike. Understand the basic of gearing ratios.

Challenge:
Make observations about gears on a bike.

Bike Trial First Observation:

The driver gear has ____ teeth. The driven gear has ____ teeth. When I turn the driver gear once the driven gear turns ____ times.

Bike Trial Second Observation:

The driver gear has ____ teeth. The driven gear has ____ teeth. When I turn the driver gear once the driven gear turns ____ times.

Bike Trial Third Observation:

The driver gear has ____ teeth. The driven gear has ____ teeth. When I turn the driver gear once the driven gear turns ____ times.



General Mercury wants you to investigate mechanisms – gears.

General Mercury wants you to record what they do in diagrams with arrows and labels.

Write an 'if ___ then ___ because ___' sentence about the size of the cog and its rotation. Draw an example of this below:

Stretch:
Make observations about gears on a bike. Understand the basic of gearing ratios.

Challenge:
Make observations about gears on a bike.