

Name: _____

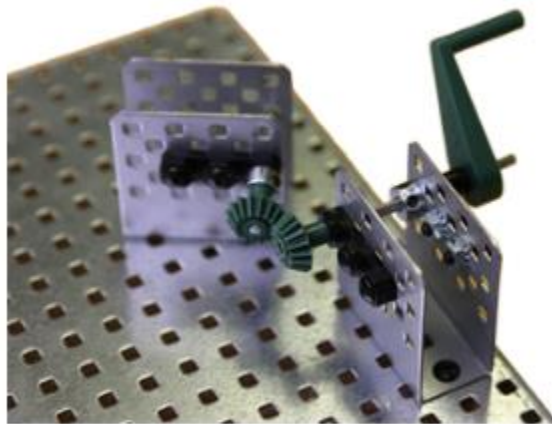
Date: _____

Build #3: Bevel Gears!

Per: _____

Directions: Using the image below and your knowledge of VEX materials to this point, construct a bevel gear with your groupmates. Make sure you have Mr. Valentino check off your build before you move on to answer the questions.

Mr. Valentino initials _____



Questions:

1. What is the angle of the input shaft compared to the output shaft?

2. Is the speed increased, decreased, or constant? _____
3. Is the torque increased, decreased, or constant? _____
4. If the input gear was larger than the output gear, how would that affect the speed and torque?

5. What is the gear ratio? _____ : _____
6. Is the flow of power reversible? (Can you make the input shaft turn by turning the output shaft?)

7. List an example where this mechanism might be used. *A helpful search term is **bevel gear**.*