

Name: _____

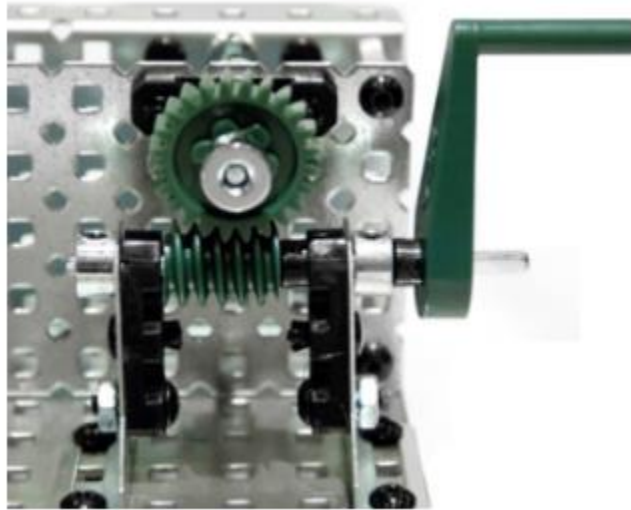
Date: _____

Build #4 – Worm and Wheel

Per: _____

Directions: Using your VEX building skills to this point, build the **worm and wheel** mechanism below. Notice, there are some new pieces in order to construct this mechanism! After building, answer the questions that follow.

Mr. Valentino initials _____



1. What is the angle of the input shaft compared to the output shaft? _____
2. Is the speed increased, decreased, or constant?

3. Label the **worm and wheel gears**.
4. What is the gear ratio?

5. Is the flow of power reversible? (Can you make the input shaft turn by turning the output shaft?)

6. Is the direction of travel reversible? (Does the mechanism still work if the input shaft is turned in the opposite direction?)

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