

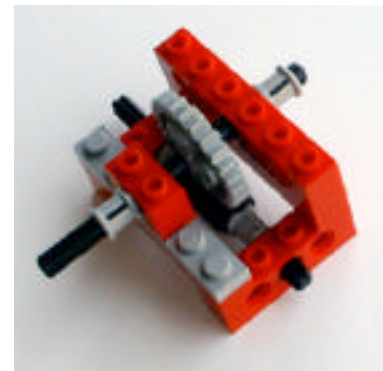
Teachers Guide
Activity Six
Worm Gears

Concept

Worm gears are used when a change in the direction in motion is required. Worm gears act like screws and provide a continuous motion. In the construction below, a force on the worm gear will be changed when connected to a wheel gear. This construction might be used to turn the wheels on a model car.

Materials

- two 4-stud beams
- one 6-stud beam
- one 2-stud beam
- three 1X6 stud plates
- one 1X2 plates
- two 8-stud length axles
- one 24-tooth gear wheels
- one worm gear



Directions:

1. Assemble a wheel and worm gear as pictured to the right.
2. Turn the axle of the worm gear and then turn the axle on the wheel gear.
3. Record your observations in the space below.