Experiment #3 Worm Gear Capsule

INFORMATION

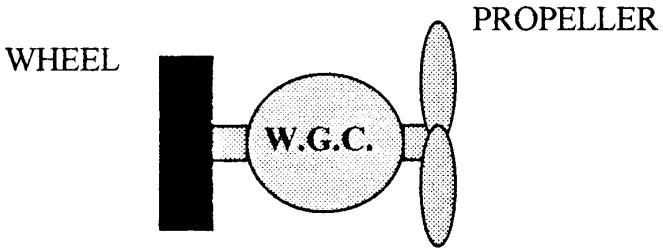
In this experiment you will look at the Worm Gear Capsule and how it changes the force of the motor. This capsule is very special because it uses a screw to move other gears. Pay close attention to how the screw is used inside the capsule.

PROCEDURE

Record your findings in the space provided and answer the questions to the best of your ability. You must use complete sentences and spelling does count.
"Transformers! More than meets the eye!"

Step 1:

Locate the worm gear capsule. Notice that the capsule has two gray shafts and two white shafts. Place the green propeller on one of the gray shaft connectors and the large wheel on one of the white shaft connectors. Rotate the propeller and count the number of turns it takes to rotate the wheel one time.
Place your answer here :_____



Using your information, how many times does the motor have to turn to make the wheel turn 3 times? (Show your math calculations below.)

Answer:_____

Step 2:

Connect the Capsela components and the electrical circuit as shown below.

