Experiment #4 Crown Gear

INFORMATION

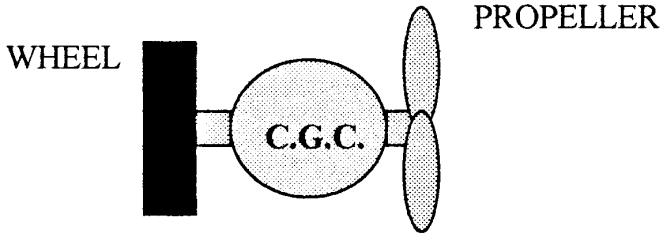
In this experiment you will look at the Crown Gear Capsule and how it changes the force of the motor. Notice that the teeth on the crown gear (the largest gear in the capsule) are on the side of the gear.

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.

Step 1:

Locate the crown gear capsule. Place the green propeller on the shaft connector with the crown gear (largest gear in the capsule) and the wheel on the shaft connector with the small *follower* gears. 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 17 times? (Show your math calculations below.)

Answer:_____

Step 2:

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

