Experiment #1 System Power / Twisting Force

INFORMATION

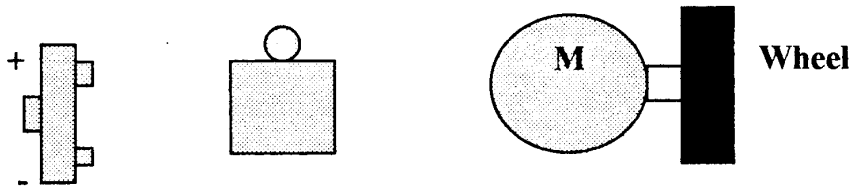
In this part of the research project we will look at the Capsela motor unit. The motor rotates at 9,600 rpm and uses only 3 volts of electricity. This means that the motor has a limited amount of power or twisting force.

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. ***May the Force be with you!***

Step 1:

Connect the motor capsule to the large wheel. Connect the electrical circuit as shown below.



Note : Make sure that the batteries are placed into the power pack correctly.
Ensure that the teeth of the motor and the teeth of the wheel are interlock firmly.

Step 2:

Start the motor and watch the wheel. Record its motion (fast or slow).

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Use your fingers to cause enough friction to stop the wheel. Does it stop easily or do you have some difficulty?

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Step 3:

In terms of power or the ability to turn, how would you rate this system's performance? (very good, good, okay, bad, or very bad)

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