

Electric Car II

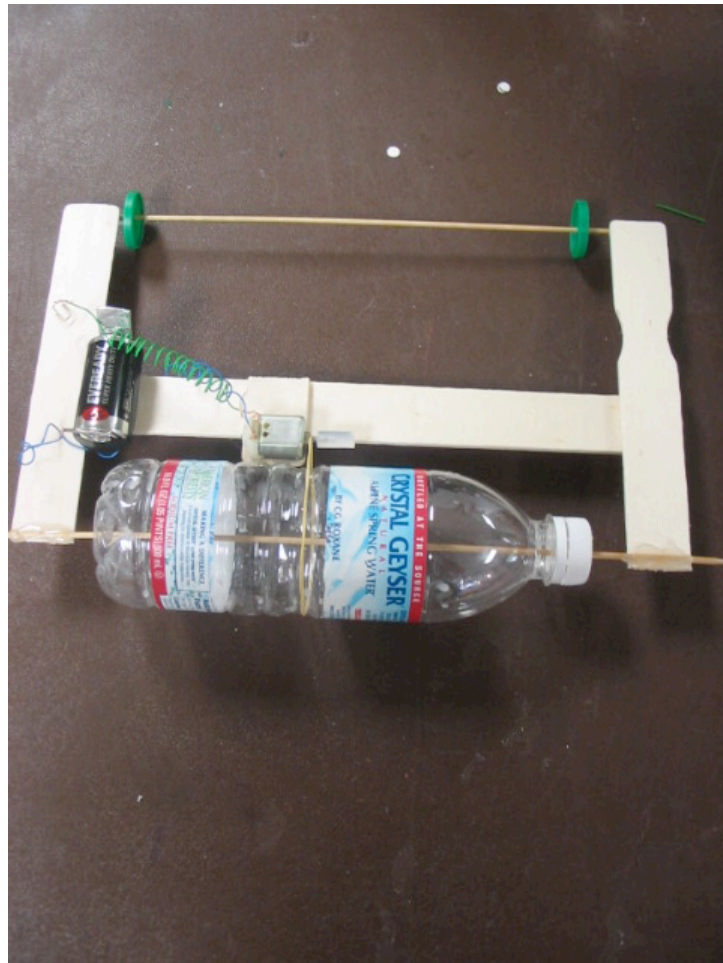
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Parts:

2	Models
2	Bamboo skewers
2	Wheels – film can lids or other circles
2	Paint paddles
1	AA battery
1	Motor
	Aluminum foil
1	Plastic single bottle with lid
	Rubber bands
2	Paper clips – small
2	Connection wire
2	Brass fastners

Extra Tools:

Wire strippers
Drill
Drill platform
15/64 bit (sharp)
Nail bit



Concepts:

1. The car gets its energy from the battery.
2. The motor will only work if connected in a complete circuit across the battery.
3. If you switch the wires, the motor and the car will go the other direction.
4. If you move the rubber band to the neck of the bottle, the car will go faster. If you connect the rubber band to film can on the rear axle, the car will go approximately the same speed.

Questions:

1. Where does the car get its energy?
2. How can you make the car turn corners?
3. How could you make a car like this that goes even faster?
4. What can you do to make your car change directions?