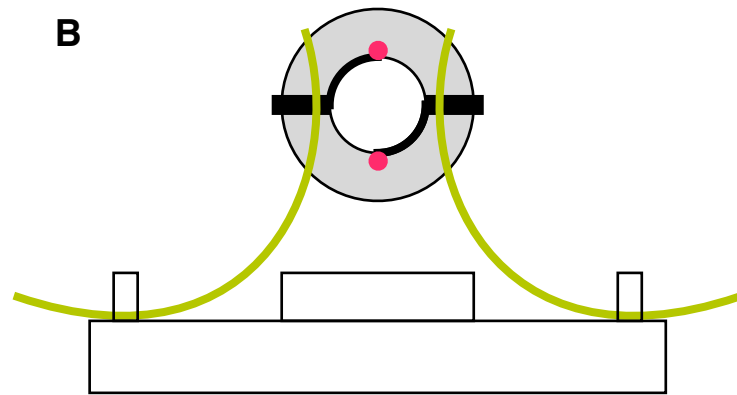
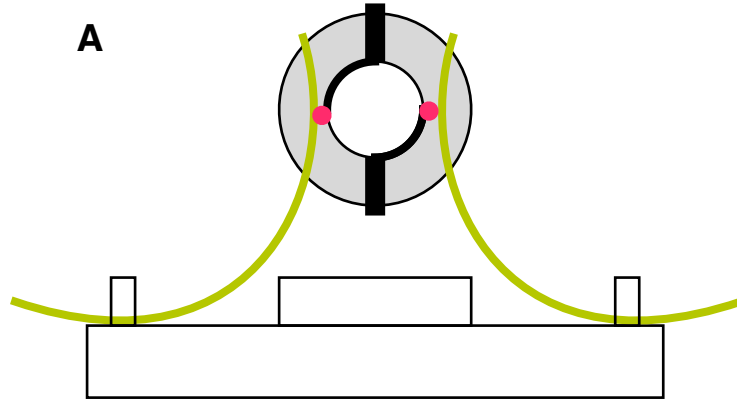


Motor Project

1. Label the following in both diagrams: Coil, Commutators, Brushes, Magnet, Cork, glass tube, wood block
2. Current will flow in the coil in only one of the diagrams - show how the current would flow in that diagram. (Assume the current flows from left to right.)



Trial	Voltage	Points
1		
2		
3		
4		

Performance Score: _____

Motor Project

Questions:

1. What is the purpose of the coil of wire?
2. Why must the coil of wire be wrapped in the same direction?
3. What is the purpose of the brushes (small wires held down by thumb tack)?
4. If the coil is held horizontally, why is it important that the wires from the coil (commutators) are connected to the top and bottom of the glass tube?
5. Why does the motor require a permanent magnet in order to run?
6. When does the coil of wire experience a force?
7. When does the coil of wire not experience a force?
8. Why is it necessary for current in the coil of wire to change direction?

