

Student Name _____ *Date* _____

Jump Rope Generator: Observations

Fill out the table with your measurements of greatest deflection on the galvanometer in each of the four cases. Then answer the questions below the table.

	Cord aligned east-west	Cord aligned north-south
Slow		
Fast		

1. What effect does the rotational speed of the cord have on the deflection of the galvanometer?
2. Describe the conditions in which you had the maximum voltage (or current) through the galvanometer.
3. Describe the conditions in which you had the minimum voltage (or current) through the galvanometer.
4. Explain why the galvanometer needle moves when you play jump-rope with the extension cord.
5. Explain why the the orientation of the jump rope to Earth's magnetic field effects the galvanometer reading.

