

2013 Clio Invitational MagLev

Score \_\_\_\_\_ / 50

Team number \_\_\_\_\_

School name \_\_\_\_\_

5 points each

1. Who discovered superconductivity?
2. Who discovered the connection between electricity, magnetism and optics?
3. What are the base SI units of the tesla?
4. When does the Meissner effect occur?
5. At what temperature does a magnetic material lose its magnetic field?
6. What short lived maglev system was made obsolete by the fall of the Berlin Wall?
7. What does a solenoid produce?
8. Who first proposed that the earth is a large, spinning magnet?
9. In what three countries are maglev systems currently deployed?
10. Do permanent magnets function after the current is turned off?