

## **Questions**

1. Loops? What are they? How do you choose them?
  - A complete loop with no branches
2. Blinking lights in a circuit?
  - Inductance, electrical oscillating circuits
3. How much does electricity weigh?
  - $E=mc^2$
4. How does a circuit breaker work?
  - Fuse; breaks circuit when current is too high
5. What is a short?
  - Bypass through a very low-resistance path; typically means very high current.
6. Why is it easier to transport AC current?
  - Need very high voltage transmission lines; easier to get with AC
7. How is the earth's magnetic field created?
  - Mantle is molten, as well as the core and they spin, creating a magnetic field
8. How is a magnetic bottle created?
  - Placement of magnets; curves  $\pm q$  into circles
9. How does an MRI work?
  - Uses magnetism of atomic nuclei to view what is going on