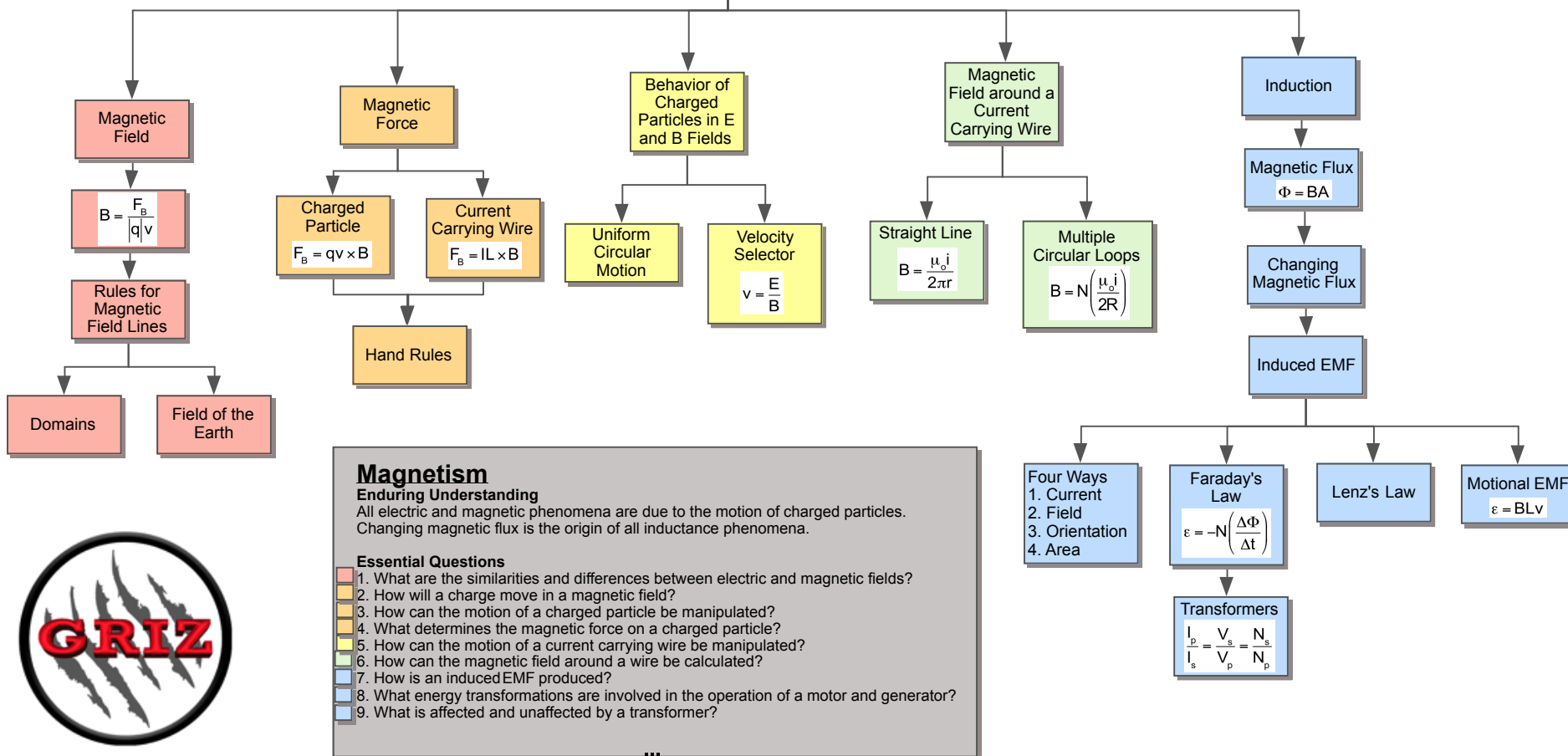


Magnetism  
AP Physics 1/2



**Magnetism**  
**Enduring Understanding**  
 All electric and magnetic phenomena are due to the motion of charged particles. Changing magnetic flux is the origin of all inductance phenomena.

**Essential Questions**

1. What are the similarities and differences between electric and magnetic fields?
2. How will a charge move in a magnetic field?
3. How can the motion of a charged particle be manipulated?
4. What determines the magnetic force on a charged particle?
5. How can the motion of a current carrying wire be manipulated?
6. How can the magnetic field around a wire be calculated?
7. How is an induced EMF produced?
8. What energy transformations are involved in the operation of a motor and generator?
9. What is affected and unaffected by a transformer?

