

GRADE: 8 SUBJECT: Science QUARTER: 3

Students will...	IL State Standard
Explain what the properties of a magnet are. Explain magnetic poles and magnetic fields.	12.d.2b
Explain how an atom can behave like a magnet.	12.D.2b
Describe the magnetic domains and how they change	12.D.1b
Explain how earth is like a magnet/the effects on the magnetic field.	12.D.1b
Describe/tell what an electric charge is. Describe how electric charges build up.	12.C.2a
How an electric current is produced. Know the difference between conductor/insulator. Explain Ohm's Law. Calculate electric power.	12.D.2b
Explain the parts of a battery and how it works.	12.C.1a
Describe measures to protect people from electrical shock and injury.	13.A.3a
Describe the basic features of an electric circuit and the path they take.	12.D.2b
Build a model home and install 5 complete circuits. Calculate area, perimeter ratios and proportions.	11.B.3c 11.A.3e
Identify the characteristics of a magnetic field.	12.D.1b
Describe what/how electric motors work. Describe 2 types of electric signals. Explain how info is stored/processed.	12.D.2b
Explain how electromagnetic waves are involved in transmitting radio/tv signals.	12.D.3b