

7TH TOPICS

Physics

1. Law of conservation of energy
2. Energy transfers and transformations
3. Environment consequences of different energy types
4. Light and sound wave energy and interactions
5. Noncontact forces (gravitational, magnetic, electric)
6. Contact forces (Newton's Laws)

Earth Science

1. Layers of the earth and/or the magnetic field of the Earth
2. Geologic time (timing and relationships between events that have occurred throughout Earth's history including eras and epochs)
3. Convection currents (tectonic plates moving to create Earthquakes, volcanic eruptions, mountain formation, new ocean floor)
4. Rock cycle (how rocks change over millions of years)
5. Soil formation
6. Indiana geology (cave formation, glaciers, etc. that explain why Indiana looks the way it does)
7. Fossils

Life Science:

1. Functions carried out in cells
2. How cells work together
3. Different types of cells
4. What each part of a cell (organelles) does
5. Animal and plant cells
6. Cell division
7. Organs and tissues in the body