





As problems arise scientists must use the scientific method to analyze the situation and formulate theories









The behavior of substances in nature are explained by several physical laws

- Law of Conservation of Matter-
 - Substances may undergo a physical or a chemical change
 - The
 - It is never "
- This creates pollutants- contaminants

Pollutants are categorized based on their persistence

- Degradable
 - Broken
- Biodegradable
 Broken down by
- Bloken down by
- Slowly degradable
 - Takes
 - D
- Nondegradable
 - Cannot be
 M

Forms of nuclear change

- Radioactive Decay
 - Radioactive isotopes change into a different isotope, emits radiation
 - Plutonium -239 has a half-life of 24,000 years, how long will it be before it reaches a safe level of radiation?



Nuclear Fusion

- Two isotopes are forced together under high temperature to form a heavier nucleus
- Trying to develop as a new form of energy



Second Law-

This increases

The energy that is lost as you go up an energy pyramid (waste heat = entropy) is explained by the







In the United States only 16%



