

Name _____

Your midterm will cover Physical Science and parts of Life Science. It will also cover observation, scientific inquiry, and lab safety. Use your notes, worksheets, labs, previous tests, and handouts to study.

Observation and Scientific Inquiry

1. Know types of observations- qualitative, quantitative
2. Know steps to scientific inquiry.
3. Know terms identified with scientific inquiry.- variable, manipulated variable, responding variable, constants, control, controlled experiment, data, conclusion
4. Pick out information from experiments. Example- What is the responding variable in this experiment?

Lab Safety

1. Know common safety rules and practices.

Triple Beam Balance

1. Know methods of measuring mass.- direct, indirect, substance
2. Know what is the difference between mass and weight?

Physical Science

Chemical Building Blocks

1. Know properties of matter.
2. Know how to find mass, volume, and density using a formula.
3. Know the difference between physical and chemical changes.
4. Know to classify matter.
5. Know the difference between elements, compounds, and mixtures.
6. What is the difference between an exothermic and endothermic reaction?
7. Know the four types of chemical reactions- Synthesis, Decomposition, Single and Double Replacement and be able to pick them out.

Chemical Interactions-Section 3.1- Working With Solutions

1. Know boldface terms and sentences
2. Know what is a solution, solute, solvent, and suspension.
3. Know what is a dilute and concentrated solution.
4. Know what is solubility and how solubility can be changed.

Section 3.2-3.3 Acids and Bases

1. Know the properties of acids and bases.
2. Know uses of acids and bases.
3. Know what ions are produced with acids and bases in solution.

4. Know what is pH and how to read a pH scale.
5. Know what litmus paper shows.
6. Know common acids and bases.
7. Know what is neutralization and its by-products.
8. Know about acid rain.
9. Know the pH of pure water.

Section 3.4- Digestions and pH

1. Know digestion and basic organs in the digestive system.- mouth, stomach, small and large intestine
2. Know the difference between mechanical and chemical digestion and know where each one takes place.
3. Know what is an enzyme and its function.
4. Know how pH changes throughout the digestive system.

Sound and Light-textbook

Chapter 1- Sections 1.1-1.2

1. Know boldface terms and sentences.
2. Be able to label the parts of a wave.
3. Know what causes waves.
4. Know the types of waves.
5. Know the characteristics and properties of waves.
6. Know how to find the speed, frequency, and wavelength using given formulas.

Chapter 3- Electromagnetic Spectrum

1. Know boldface terms and sentences.
2. Know what are electromagnetic waves and the spectrum.
3. Know the different waves in the spectrum- their characteristics and uses.
4. Know what is food irradiation.

Life Science- Cells and Heredity- Chapter 1

1. Know boldface terms and sentences.
2. Know what are cells.
3. Know what is cell theory.
4. Know the history of the microscope and important people in its development.
5. Know who were Hooke and Leeuwenhoek.
6. Know types of microscopes.
7. Know how a compound microscope works.
8. Know the parts of a microscope.