

Name _____

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

Observations and Scientific Inquiry

1. Know type of observations.- Qualitative and quantitative
2. Steps to scientific inquiry.
3. Terms- manipulated variable, responding variable, hypothesis, inferring, controlled experiment, constants,
4. Pick out information from experiments-Example- What is the responding variable in the following experiment?

Lab Equipment and Safety

1. Know common lab safety rules and practices.- Wear safety goggles, etc.

Metric System- We will be learning this starting 12/12/11.

1. What is the metric system?
2. What is it used for?
3. Know basic units of measuring- mass, volume, length, time, temperature
4. Know what is the International System of Units.
5. Be able to use SI punctuation rules for writing metric measurement.
6. Use metric ruler to measure length.
7. Be able to add mass on balance riders.

Astronomy

1. Chapter 1- Sections 1.1-1.3
2. Boldface terms and sentences- astronomy, rotation, revolution, orbit, latitude, year, day, gravity, weight, mass
3. Know what causes day and night
4. Know what causes the seasons
5. How long is a day in hours? How long is a year in days?
6. Where part of the earth receives the most direct sunlight?
7. Know how ancient people developed calendars or used the sky to tell the passage of time.
8. When is the winter and summer solstice?
9. What is a solstice?
10. What causes the phases of the moon, eclipses, and tides?
11. Know the phases of the moon
12. Know what causes high and low tides.
13. Be able to tell the difference between a solar and lunar eclipse.

14. Who was Goddard?
15. Review Professor Parsec packet information questions
16. Know Newton's Third Law of Motion(Professor Parsec packet).
17. What is thrust and inertia?
18. Know how to figure weight on another planet using a chart.
19. Chapter 2- Solar System-Sections 2.1-2.5
20. Know the difference between a heliocentric and geocentric model of the solar system.
21. Who was Copernicus? Galileo?
22. Be able to list in order the planets of the solar system.
23. Review worksheet 2.3 on Inner planets.
24. Review worksheet 2.4 on Outer planets
25. Review worksheet 2.5 on Comets, Asteroids, and Meteors

Physical Science

Chemical Building Blocks Textbook- Use notes, worksheets, labs, and handouts

Chapter 1-Describing Matter

1. Know boldface terms and sentences.
2. Know properties of matter.
3. States of matter
4. Changes in matter
5. Types of matter- mixtures, elements, compounds
6. Know the difference between physical and chemical changes