

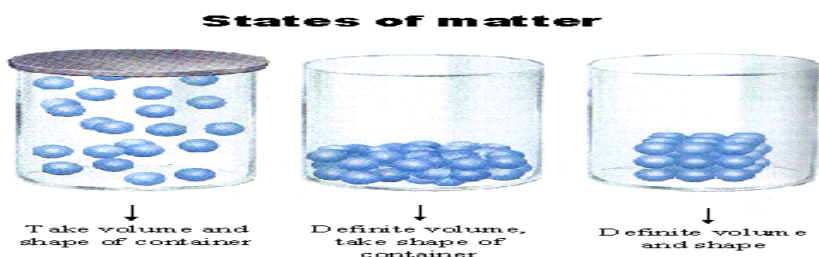
Physical Science Study Guide

Vocabulary: make index cards to study daily.....

Matter	mass	volume	atom	element	compound
Mixture	solution	nucleus	proton	neutron	electron
Physical change	size	state	shape	chemical change	chemical reaction
Electric charge	attract	repel	static electricity	electric field	current
Circuit	open circuit	closed circuit	series circuit	parallel circuit	resistance
Short circuit	conductor	insulator	magnet	magnetic field	electromagnet

Directions: Answer about 5 questions daily, before you begin the next five questions review the answers to the previous questions.

1. What is **Matter**?
2. What are physical **Properties** of matter? What are chemical **Properties** of matter?
3. What are the **3 main states or phases** of matter?



Picture Credit:

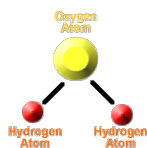
<http://sbhs.wilmington.org/powerpoint/chapter15/img014.gif>

- A. **Solid:** tightly packed molecules
- B. **Liquid:** loosely packed molecules
- C. **Gas:** very loosely packed molecules

4. What is **Condensation**?
5. What is **Evaporation**?
6. How does **Temperature** cause matter to change states?
7. What is an **Atom**? What particles are found in an **atom**?
8. What is an **Element**?

Picture Credit: http://www.brad.ac.uk/acad/chemistry/Dobs_web_links/images/periodic_table.gif

9. What is a **Compound**?

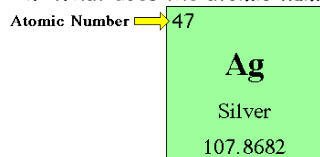


Picture Credit: <http://www.princeton.edu/~chm112/project/water%20molecule.gif>

10. -11. There are 2 main ways substances can be mixed together:
- What is a **Mixture**?
 - What is a **Solution**?
12. What is **Mass**?
13. What is **volume**?

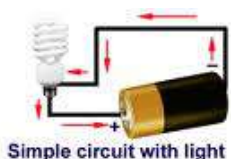
Picture Credit: <http://www.sunblock99.org.uk/sb99/pictures/general/atom.gif>

14. What does the **atomic number** of an element mean?

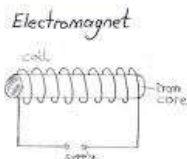


Picture Credit: <http://education.jlab.org/glossary/atomicnumber.gif>

15. Matter can undergo two types of changes.
- What is a **physical change**? What are indicators of a physical change?
- What is a **chemical change**? What are indicators of a chemical change?
16. How does the **electric charge** of an object affect its behavior?
17. How can an object become charged?
18. When will objects **attract**? When will objects **repel**?
19. What is **static electricity**?
20. What is **current electricity**?



21. What is a **circuit**? How does a closed circuit allow electric current to flow?
22. What is a **series circuit**? What happens to the flow of electricity in a series circuit when one object is removed?
23. What is a **parallel circuit**? What happens to the flow of electricity in a parallel circuit when one object is removed?
24. What materials make good **conductors**? How are conductors important to circuits?
25. What materials make good **insulators**? How are insulators important to circuits?



26. What is an **electromagnet**? How can you control the power of an electromagnet?

Evidence of completion of this study guide needs to be provided on the day of the test. Physical Science Unit Test date has not been established. It will likely be the first week in February.