

**Matter & Elements
Study Guide Review**

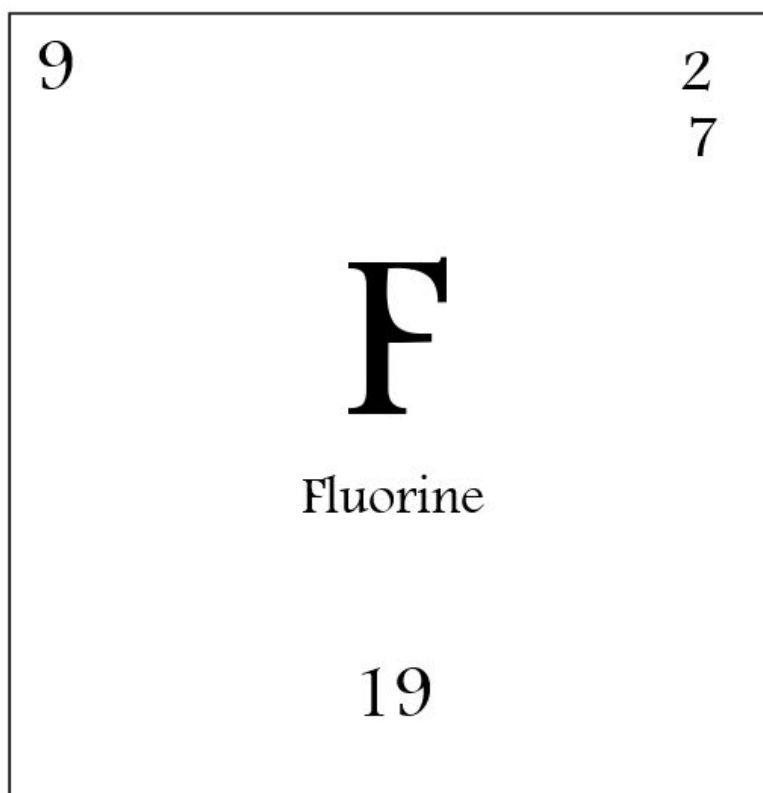
<u>Concept</u>	<u>Details</u>
1. What are properties ?	Characteristics that are used to identify matter.
2. Define physical change	A change in the size, shape, or state of matter
3. Define chemical change	A change in which the nature of a substance is made different from what it was
4. Plasma makes up _____% of the universe.	99%
5. Give 3 examples of a chemical change :	1. Rust 2. Baking a cake 3. Burning wood *answers may vary
6. The _____ of an object does NOT change when it is moved.	Mass
7. Give 3 examples of a	1. Cutting paper

<p>physical change:</p>	<p>2. Chopping wood</p> <p>3. Crushing an aluminum can</p> <p>*answers may vary</p>
<p>8. Describe molecules in a solid.</p>	<p>They are closely packed together & vibrate.</p>
<p>9. Give 3 examples of plasma:</p>	<p>1. Fluorescent lights</p> <p>2. Stars</p> <p>3. Northern lights</p> <p>*answers may vary</p>
<p>10. What elements make up the compound carbon dioxide?</p>	<p>1. Carbon</p> <p>2. Oxygen</p>
<p>11. A substance can be changed from a liquid to a solid by_____.</p>	<p>Freezing</p>
<p>12. In a gas, the molecules are _____ than in a liquid.</p>	<p>Farther apart</p>
<p>13. Name the 4 main states of matter:</p>	<p>1. Solid</p> <p>2. Liquid</p>

	<p>3. Gas</p> <p>4. Plasma</p>
<p>14. What are the 4 main properties of matter? Hint: Dude, Where's My Van?</p>	<p>1. Density</p> <p>2. Weight</p> <p>3. Mass</p> <p>4. Volume</p>
<p>15. This particle in an atom has a <u>negative</u> charge.</p>	<p>Electron</p>
<p>16. This particle in an atom has a <u>positive</u> charge.</p>	<p>Proton</p>
<p>17. One or more new kinds of matter are formed during a _____ change.</p>	<p>Chemical</p>
<p>18. The _____ number is the same as the number of protons.</p>	<p>Atomic</p>
<p>19. When 2 of the same kind of atoms join together, a _____ is created.</p>	<p>Molecule</p>

20. Melting ice is an example of a _____ change.	Physical
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List the parts of the element diagram below.



1. Element Name:	Fluorine
2. Element Symbol:	F
3. Atomic Number:	9

4. Atomic Weight:	19
5. Electron Shell Formation:	2, 7