

Mix and Flow of Matter - Section 1.0 - Quiz

Fluids are used in technological devices and everyday materials.

ANSWER KEY

Student Name _____

Class _____

1.1 WHMIS Symbols and Safety Procedures

Identify **4 Safety Guidelines** that are **NOT** being followed by students in the following illustration.

1	Make sure you have a clean work space to perform your experiments	
2	Clean up all spills immediately	
3	Remove flammable materials when working with an open flame	
4	Wear Personal Protective Equipment (PPE) when working in the Science Lab	

5. Which of the following statements is **TRUE**?

- A. carelessness will result in precise results
- B. the baggy look is in, especially in the science lab
- C. it's cool to wear protective shoes in the science lab
- D. long hair, shades and awesome scarves are the rule in science

6. Laboratory clothing from a safety point of view should follow these guidelines ... **EXCEPT** for ...

- A. Finger rings or other tight jewelry, which are not easily removed should not be worn.
- B. Where infectious materials are present, lab coats and gloves are essential.
- C. Sandals, open-toed shoes, and shoes with woven uppers, can be worn.
- D. Find out the recommended clothing to wear for a particular chemical.

IDENTIFY these WHMIS LABELS



7. POISONOUS and INFECTIOUS

ILLUSTRATE These WHMIS LABELS



9. Compressed Gas



8. FLAMMABLE



10. Toxic

1.2 The Many Uses of Fluids

11. Frost damage is a big risk for farmers who grow fruit. To help farmers protect their crops a shaving-cream-like foam to spray on the fruit was invented to protect the fruit. It is called ...
- A. Foam aid
 - B. Agrifoam
 - C. Fruit foam
 - D. Agriprotect
12. Anything that has no fixed shape and can flow and usually is a liquid or a gas is called a ...
- A. hydraulic
 - B. pneumatic
 - C. compressed gas
 - D. fluid
13. To move a solid, like dirt, more easily, it is mixed with water. The mixture is called a ...
- A. mess
 - B. sludge
 - C. slurry
 - D. colloid
14. Toothpaste contains bauxite to polish your teeth. It also contains a detergent to clean your teeth and fluoride to strengthen them. All these substances are kept together with a substance called 'binder', which is made from ...
- A. paste
 - B. resin
 - C. pulp
 - D. glue
15. Syncrude originally used conveyor belts to move the oil sand from the mine to the processing plant, but it proved to be very expensive to continue operating in this way. They now use ...
- A. a slurry pipeline
 - B. transport trucks
 - C. very large bulldozers
 - D. monster dumptrucks

The '**Particle Model of Matter**' helps to explain how substances behave

16. A change in state occurs when the energy of the particles in a substance changes. Melting occurs when the particles in a substance ...
- A. gain energy
 - B. lose energy
 - C. share energy
 - D. move slower
17. When particles slip past each other, they cannot hold their shape, but take the shape of the container they are in. This state of matter is called
- A. solid
 - B. liquid
 - C. gas
 - D. plasma
18. Fluids demonstrate properties that can be useful. The ability of a fluid to 'flow slowly' is based on this property ...
- A. density
 - B. compressibility
 - C. buoyancy
 - D. viscosity