

Name: _____

Date: _____

1. What is matter?

Matter is anything that can be weighed and that occupies a physical space.

2. What is mass?

Mass is the amount of matter in an object.

3. What is volume?

Volume is how much space an object occupies.

4. Which materials can you use to measure volume?

We can use a measuring cylinder, a beaker and a flask.

5. Complete the sentence:

Mass is measured in grams, tonnes and kilograms, but volume is usually measured in millilitres and litres.

6. What are solids?

Substances that have got a fixed shape.

7. What are liquids?

Substances that take the shape of their container and can't be compressed.

8. What are gases?

Substances that haven't got a fixed shape and can be compressed.

9. What is the meaning of pure substances?

Substances that can't be separated into other substances by physical methods.

10. What is the meaning of mixture?

Two or more pure substances that can be separated by physical methods.

11. What is the difference between homogeneous mixture and heterogeneous mixture? In an homogeneous mixture the substances are distributed evenly and you cannot see the elements with your eyes, in heterogeneous mixtures the substances are not distributed evenly and you can see them with your eyes.

12. Name the physical and chemical changes happening in the following pictures:



Burning (chemical)



Rotting (chemical)



Rusting (chemical)



Evaporation (physical)



Condensation (physical)



Melting (physical)

13. What type of energy source are they?

- a. A torch **Light energy**
- b. A person eating **Chemical energy**
- c. A paper burning **Chemical energy**
- d. Batteries **Electrical energy**
- e. A windmill moving **Mechanical energy**
- f. A water current **Mechanical energy**
- g. A bolt **Light and thermal energy.**

14. What is the difference between renewable and non-renewable energy sources?

Renewable energy sources regenerate quickly and naturally and non-renewable energy sources do not regenerate quickly.