Name: _____ Date: _____

Science

Matter

Study the notes and definitions below.

(a) **Matter**-anything that has mass and takes up space

(b)There are three common states of matter.

(i) **solids**-have a definite shape and volume; the atoms in a solid are packed close together

(ii) **liquids**-have volume but no shape; takes the shape of the container; the atoms in a liquid

slide around

(iii) **gas**-no definite shape or volume; spreads out to fill the container; the atoms in a gas are

spread out

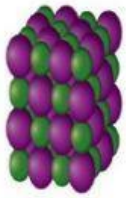
All substances have certain characteristics called properties. **Physical properties** can be observed or measured. Physical properties that can be observed are **colour, shape, size, texture, length, density, luster and height**.

Many physical properties can be measured using the following instruments:

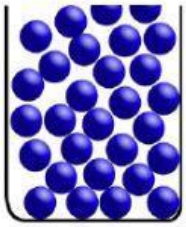
(c) **balance scale**-used to measure **mass**, which is the amount of matter an object has eg. golf ball

(d) **graduate cylinder**: measures **volume** which is the amount of space the matter takes up

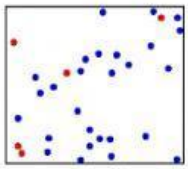
(c) **measuring cup/spoon**: also measure volume



particles in a solid



particles in a liquid

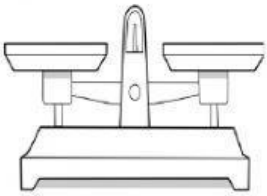


particles in a gas

LIVEWORKSHEETS



balance scale



balance scale



graduate cylinder



measuring cup

(A) Match the words in Column A with the definition or clue in Column B. Write the letter only, not the brackets.

| Column A | Column B |
|---|---|
| 1. _____gas | (A) The atoms are tightly packed together |
| 2. _____ mass | (B) An instrument used to measure volume. |
| 3. _____solids | (C) This can be observed and measured eg. color |
| 4. _____ matter | (D) A kind of matter with no definite shape or volume. |
| 5. _____physical properties | (E) An instrument used to measure mass. |
| 6. _____volume | (F) A tool used to measure the length of a book |
| 7. _____balancing scale | (G) This is the amount of matter an object has. |
| 8. _____ graduated cylinder | (H) This kind of matter has volume and takes the |

LIVEWORKSHEETS

shape of its container.

9. _____ruler (I) This is the amount of space matter takes up.

10. _____ liquids (J) Anything that has mass and takes up space.

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