

SCIENCE QUESTIONS

NOTE BOOK WORK

Ls. MATTER

I. **Answer in one word.**

a. **Which state of matter has definite volume but not a definite shape?**

A. Liquid

b. **Give an example each of a solid, liquid and gas found in a car.**

A. Liquid petrol

Solid body of the car

Gas air in the tyres is a mixture of different gases

c. **Name the state of matter which has the most energy.**

A. Gaseous state as the particles are in random motion.

II. **Differentiate between solute and solvent.**

A.

Solute	Solvent
In a solution, the substance which gets dissolved is solute.	Solvent is the substance in which the solute will dissolve.

III. **Justify your answers.**

a. **Iron objects are made up of various shapes and sizes.**

A. This is because iron melts on heating so it can be moulded into desired shapes and sizes.

b. **No more solute can be added in a saturated solution.**

A. In a saturated solution the solute particles occupy the maximum space in between the solvent molecules, so no more solute can be added in it.

c. **Air is a matter.**

d. This is because air has mass and takes up space.

Draw and show the molecular arrangements in all the three states of matter.