

## Chapter 4: Matter

### Worksheet 1

#### 1. Fill in the blanks.

- (i) Anything that occupies space and has mass is called \_\_\_\_\_ .
- (ii) Kinetic energy increases with an \_\_\_\_\_ in temperature.
- (iii) The space between the particles of matter is called \_\_\_\_\_.
- (iv) The molecules of \_\_\_\_\_ are very loosely packed.
- (v) Tearing of paper is a \_\_\_\_\_ change.

#### 2. Give one word for the following.

- (i) The state of matter in which molecules are tightly packed.
- (ii) The state of matter in which intermolecular forces of attraction are the weakest.
- (iii) The intermixing of particles of two different types of matter on their own.
- (iv) The state of matter in which molecules possess minimum kinetic energy.
- (v) The change in which no new substance is formed.

#### 3. Answer these questions.

- (i) Define matter.
- (ii) Which state of matter has neither definite shape nor definite volume?
- (iii) Why is water called a matter?
- (iv) List three properties of solids.
- (v) Mention two examples of chemical changes.

#### 4. Match the columns.

##### Column A

- (i) Solids have
- (ii) Liquids have
- (iii) Gases have
- (iv) Physical change
- (v) Chemical change

##### Column B

- (a) Baking a cake
- (b) Dissolving salt in water
- (c) Medium intermolecular space
- (d) Negligible intermolecular space
- (e) Maximum intermolecular space

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### Worksheet 2

#### 1. Write T for true and F for false statement.

- (i) Gases can flow easily in all directions.
- (ii) Solids can be compressed easily.
- (iii) When water gets heated, its molecules gain more energy and vibrate even faster.
- (iv) Breaking of a glass is a physical change.
- (v) Most physical changes are irreversible change.

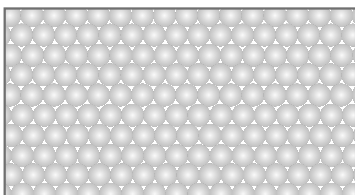
#### 2. Fill in the blanks.

- (i) The intermolecular space is \_\_\_\_\_ in a liquid than a solid.
- (ii) \_\_\_\_\_ and gases are not rigid.
- (iii) When a substance is cooled, its particles \_\_\_\_\_ kinetic energy.
- (iv) Melting of butter is a \_\_\_\_\_ change.
- (v) Burning of coal is a \_\_\_\_\_ change.

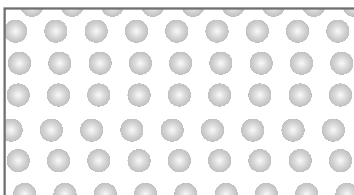
#### 3. Answer these questions.

- (i) Define intermolecular forces of attraction.
- (ii) Which state of matter has definite volume but indefinite shape?
- (iii) Is rolling of *chapati* from a ball of dough a physical change?
- (iv) Write two examples of physical changes.
- (v) Why do gases fill the container of any shape or size completely?

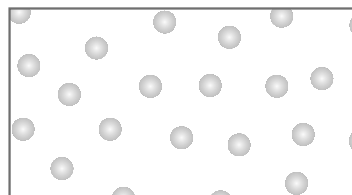
#### 4. Identify and write the state of matter in each arrangement of molecules shown here.



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