$\qquad$
$\qquad$
(1) Label the diagram with the words from the box.

| condensation | sublimation | gases | liquids | solidification |
| :--- | :--- | :--- | :--- | :--- |


$\qquad$ f. $\qquad$
e.
(2) Tick the boxes that apply to the states of matter.

| property | liquid | solid | gas |  |  |
| :--- | :--- | :--- | :--- | :--- | :---: |
| definite shape |  |  |  |  |  |
| indefinite shape |  |  |  |  |  |
| definite volume |  |  |  |  |  |
| indefinite volume |  |  |  |  |  |
| can be compressed |  |  |  |  |  |

(3) Which of these changes of matter are physical ( P ) or chemical (C)? Write.
a. fermentation $\square$ e. oxidation $\square$
b. frying an egg $\square$
f. sharpening a pencil $\square$
c. folding paper $\square$
g. dissolving sugar in tea $\square$
d. breaking glass $\square$
h. sieving sand and pebbles $\square$
(4) Match the properties to their definitions.


1. the scratch resistance of an object
2. the amount of matter an object has
3. the amount of matter in a volume
4. how much space an object occupies
5. how much heat an object can conduct
6. how easily a substance dissolves in another substance
(5) Complete the text.

But in a heterogenous mixture, such as
(3) $\qquad$ or
(4) $\qquad$ they can be seen.

If we want to separate the substances, there are three methods: (5) $\qquad$
(6) and sieving.
(6) Draw diagrams to show the forces and their effect on objects.
$\square$
a. gravity and buoyancy on an ice cube in water

b. friction slowing a parachute down

c. a magnet on a paperclip
(7) Water has a density of $1.00 \mathrm{~kg} / \mathrm{l}$. Look at the density of these materials and objects. Which ones will float on water? Tick $(\mathcal{V})$.
a. cork: $0.25 \mathrm{~kg} / \mathrm{l}$

c. steel boat: $0.90 \mathrm{~kg} / \mathrm{L}$
b. iron: $7.90 \mathrm{~kg} / \mathrm{l}$

d. iron boat with cargo: $1.20 \mathrm{~kg} / \mathrm{l}$ $\square$

