

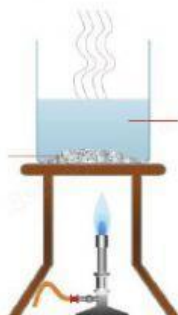
1. Read and write the type of substances. Then, select an example of each from the dropdown boxes.

- a. Two or more indistinguishable components \_\_\_\_\_
- b. Two or more distinguishable components \_\_\_\_\_
- c. Cannot be separated into other substances \_\_\_\_\_

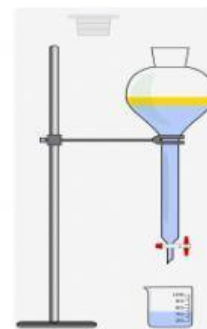
2. Look at the pictures. Write each method of separation. Then, select an example of a mixture it can be used to separate from the dropdown boxes.



\_\_\_\_\_  
\_\_\_\_\_



\_\_\_\_\_  
\_\_\_\_\_



\_\_\_\_\_  
\_\_\_\_\_

3. Complete the table with the correct temperatures. Then, answer the questions.

	water	mercury
<b>melting point</b>		
<b>boiling point</b>		

- Which substance requires more heat to change from liquid to gas?

\_\_\_\_\_

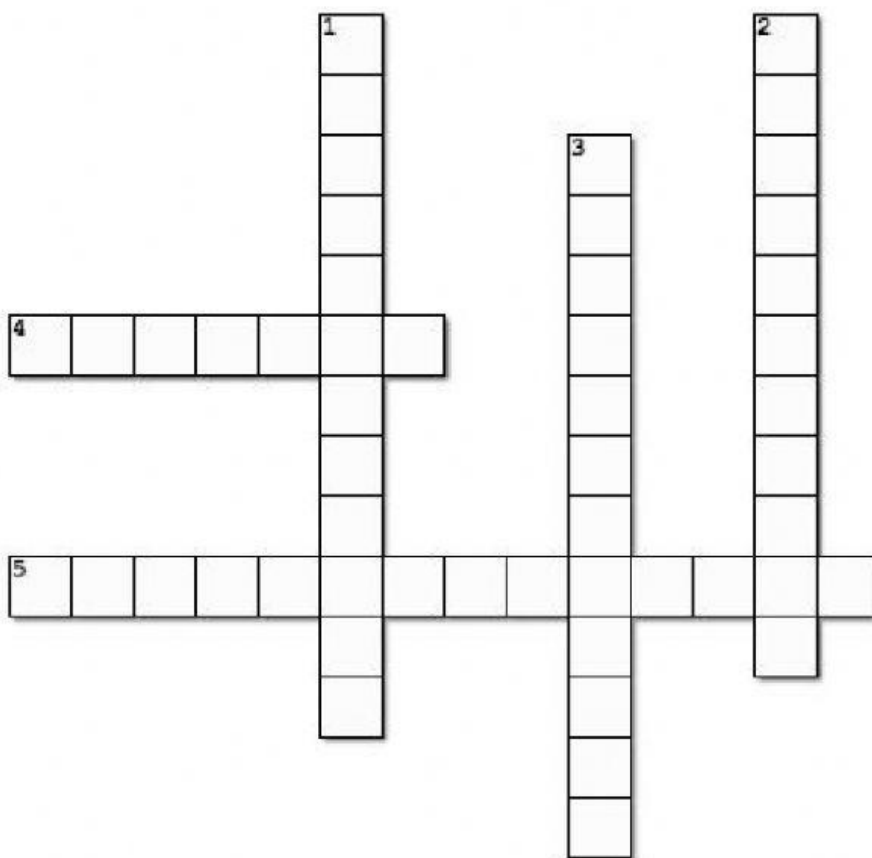
- What state are water and mercury in at  $-20\text{ }^{\circ}\text{C}$ ?

Water: \_\_\_\_\_ Mercury: \_\_\_\_\_

- What state are water and mercury in at  $260\text{ }^{\circ}\text{C}$ ?

Water: \_\_\_\_\_ Mercury: \_\_\_\_\_

4. Complete the crossword about changes of state. Then, answer the questions.



1. A gas turns into a liquid.
2. A solid turns into a gas.
3. A liquid turns into a gas.
4. A solid turns into a liquid.
5. A liquid turns into a solid.

- What change of state is missing?

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- Does it require heating or cooling?

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5. Label the type of chemical reaction occurring in the photos.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. Select true or false. Then, correct the false sentences on the lines below.

- a. Physical changes produce new substances.
- b. Movement or pressure can cause physical changes in matter.
- c. Substances contract when heated and expand when cooled.
- d. Oxidation and combustion require oxygen to happen.
- e. Fermentation is used to produce some foods.

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\_\_\_\_\_