# ATR_Matter and Purification of Water Quiz - Form B

**Name:** _____ **Period:** ____

1. After a disaster, why may city officials ask the people to **boil** tap water before drinking it?
   - ☐ To filter out sand
   - ☐ To remove lead contamination
   - ☐ To kill harmful bacteria
   - ☐ To remove its brown color

2. When a disaster strikes, which procedure would you use to prepare drinking water from creek water?
   - ☐ Put charcoal in the water
   - ☐ Filter the water, then boil it for 10 minutes
   - ☐ Filter the water two times
   - ☐ Let the water stand in a bucket overnight

3. Which chemical should have been added to Flint's water to prevent lead contamination?
   - ☐ Phosphate
   - ☐ Chlorine
   - ☐ Fluoride
   - ☐ Sulfate

4. Decide whether you have an **element**, a **compound**, a **homogeneous mixture**, or a **heterogeneous mixture**.

| Substance | Type of Matter |
|---|---|
| Copper wire | |
| Carbon dioxide gas ($CO_2$; one substance; contains two different elements) | |
| Water mixed with dirt and clay | |
| Table salt - NaCl (one substance; contains two different elements: Na and Cl) | |
| Chocolate bar with whole nuts and caramel cream | |
| Clear salt water | |

LIVEWORKSHEETS

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**5.** Choose the appropriate **state of matter** and choose the appropriate definition for each.





| | | |
|---|---|---|
| | | |

**6.** You are stranded on a deserted island without fresh water. You find a pile of trash near the water. Which of the following items would you take to make drinking water? ***Check all that apply.***

- ☐ A plastic bag
- ☐ A broken flip flop
- ☐ An empty plastic water bottle
- ☐ An old pen

What would you do with the item(s) you chose? Use at least two sentences in your answer.

_____

_____

_____

**7.** What would be the best way to **remove salt from sea water** to create drinking water?

- ☐ Filter the water several times, then boil it for 10 minutes
- ☐ Find a way to distill the water
- ☐ Boil the water for 10 minutes
- ☐ Let it sit overnight for the salt to settle down

LIVEWORKSHEETS