

ATR_Matter and Purification of Water Quiz - Form B

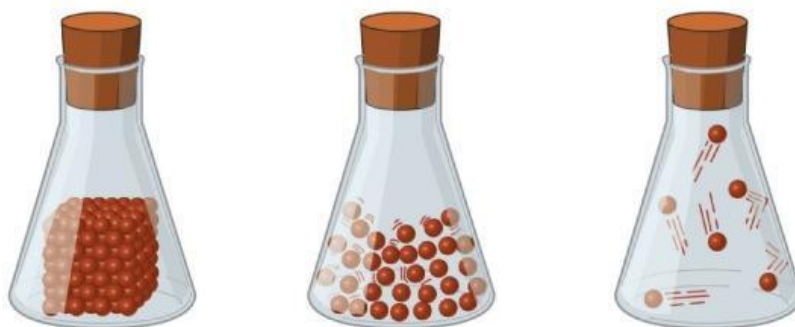
Name: _____ Period: _____

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	

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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