

## 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 <sub>2</sub> ; 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.

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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