

## ATR\_Matter and Purification of Water Quiz - Form A

Name: \_\_\_\_\_ Period: \_\_\_\_\_

- When a disaster strikes, which procedure would you use to prepare drinking water from creek water?
  - Filter the water, then boil it for 10 minutes
  - Filter the water two times
  - Let the water stand in a bucket overnight
  - Put charcoal in the water
- After a disaster, why may city officials ask the people to **boil** tap water before drinking it?
  - To remove lead contamination
  - To kill harmful bacteria
  - To filter out sand
  - To remove its brown color
- 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
  - Boil the water for 10 minutes
  - Let it sit overnight for the salt to settle down
  - Find a way to distill the water
- 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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- Which chemical should have been added to Flint's water to prevent lead contamination?
  - Phosphate
  - Chlorine
  - Fluoride
  - Sulfate

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

Substance	Type of Matter
Water mixed with dirt and sand	
Liquid propane (one substance; contains C and H)	
Aluminum foil	
Clear sugar water	
Chocolate bar with whole nuts and caramel cream	
Table salt - NaCl (one substance; contains two different elements: Na and Cl)	

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


