

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

23

Curriculum Connection  
C2.6

# Universal Solvent - Water

## Questions

Answer the questions below using evidence from the text

1) Why is water considered the universal solvent?

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2) Why does salt dissolve into water?

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## Diagram

Draw diagrams of each of the descriptions below

|                |               |                     |
|----------------|---------------|---------------------|
|                |               |                     |
| Water Molecule | Salt Molecule | Salt-Water Molecule |

## True or False

Circle whether the statement is true or false

|                                                                       |      |       |
|-----------------------------------------------------------------------|------|-------|
| 1) Positively charged atoms attract other positively charged atoms    | True | False |
| 2) Hydrogen is a positively charged atom                              | True | False |
| 3) Chlorine is attracted to hydrogen which bonds them together        | True | False |
| 4) Oil molecules and water molecules bond together to form a solution | True | False |
| 5) Salt molecules separate into individual atoms when put in water    | True | False |

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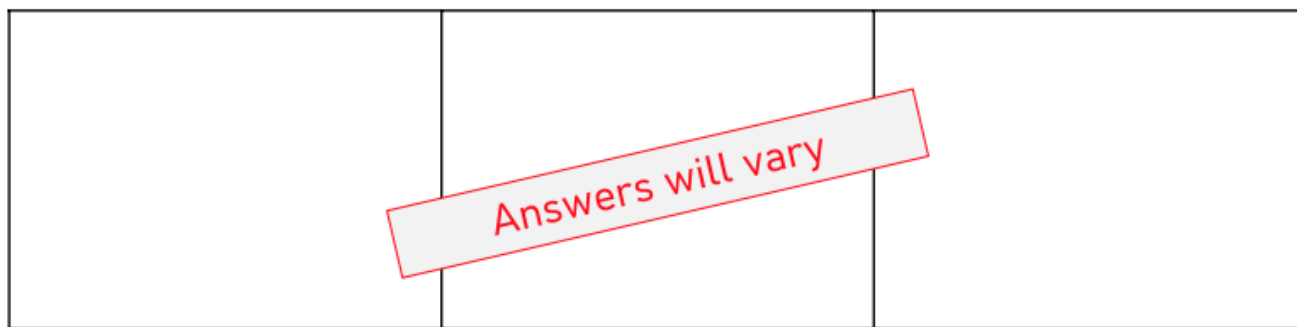
It can be used to dissolve many different solutes, more than any other solvent. It is used to dissolve and transport nutrients, elements, and compounds.

2) Why does salt dissolve into water?

The Na<sup>+</sup> atoms attract negative oxygen atoms and the Cl<sup>-</sup> atoms attract positive hydrogen atoms which makes them join together, forming a solution.

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