

# Download File PDF Foss Mixtures And Solutions Module Answers

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so many fake sites. this is the first one which worked! Many thanks

Teacher's Guide  
Module 1: Solutions

**Answer Key**

- (a), (c), (d). Vinegar, food coloring in water, and sugar dissolved in water are all solutions since each appears to be in one phase only (homogeneous) and transparent.
- (e). The component in smaller amount is the solute. The component present in greater amount is the solvent. The solid formed in a solution is called a precipitate.
- grams salt in 10 grams water is more concentrated.  
Calculations:  
 $5 \text{ grams salt} / 10 \text{ grams water} \times 100\% = 50\% \text{ salt}$   
 $18 \text{ grams salt} / 90 \text{ grams water} \times 100\% = 20\% \text{ salt}$
- $\% \text{ volume} = \text{volume solute} / \text{volume solution} \times 100\%$   
 $40\% = \text{volume solute} / 200 \text{ mL} \times 100\%$   
 $\text{volume solute} = 40\% \times 200 \text{ mL}$   
 $= 80 \text{ mL ethyl alcohol}$
- Salt is the solute; water is the solvent.
  - The solution is saturated at step 6. The solution is saturated when all (maximum amount) of the solute was dissolved. At step 7, some salt already came out of solution and did not dissolve anymore.
  - 24 grams/100 mL.
- Stirring will increase the movement or allows faster spreading of solute particles in the solvent. This in turn hastens the contact between the surface of the solute and the solvent particles.
- Powdered brown sugar has more corners and edges since the particles of the powder are smaller. So there will be more particles of brown sugar that can attach or come in contact with the water, making it dissolve faster in water.
- (a)
- (d)
- (a)

Grade 7 Science: Matter  
Diversity of Materials in the Environment

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