

## REVIEW

## 6

## SECTION 6.1

## Solutions and Other Mixtures

1. **Classify** each of the following mixtures as homogeneous or heterogeneous:

- \_\_\_\_\_ a. lemonade with pulp  
\_\_\_\_\_ b. coffee with cream and sugar  
\_\_\_\_\_ c. vinegar  
\_\_\_\_\_ d. dessert gelatin with pears in it

2. **Compare** suspensions, colloids, and solutions in terms of particle size and methods to separate each type of mixture.

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3. **Explain** why the air we breathe and solids, such as steel and bronze, are solutions or homogeneous mixtures, just like salt water is.

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4. **Identify** the solute and solvent when sugar and water are mixed to form nectar for a hummingbird feeder.

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5. After boiling a chicken in a stock pot, you let the chicken stock cool down and place it in the refrigerator overnight. The next day you notice that a solid layer of fat has formed on the top of a gelatinous mixture.

- a. **Explain** why the chicken fat rose to the top.

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- b. **Explain** what the gelatinous mixture is underneath the layer of fat.

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- c. **Describe** how you could separate the fat from the gelatinous mixture.

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