

**How can a mixture be separated?**

**Where does the solid materials go when a solution is made?**

**Are there materials outdoors that will dissolve in water?**

**What is the process to develop a model of the black box?**

**What is the difference between dissolving and melting?**

**Are all solutions made with soft-drink powder and water the same?**

**How can you determine the relative concentrations of three mystery solutions?**

**What is the relationship between salt-solution concentration and density?**

**Does it always take the same amount of solid materials to saturate 50 mL of water?**

**What is the identity of the mystery substance?**

**How can a mixture be separated?**

**How can you separate a mixture of dry materials?**

**Are there materials outdoors that will dissolve in water?**

**How might a drought-stopper system work?**

**What is the difference between dissolving and melting?**

**How can you determine which salt solution is more concentrated?**

**How can you determine the relative concentrations of three mystery solutions?**

**Is there a limit to the amount of salt that will dissolve in 50mL of water?**

**Does it always take the same amount of solid materials to saturate 50 mL of water?**

**What is in our water samples?**

**Where does the solid materials go when a solution is made?**

**How can you separate a mixture of dry materials?**

**What is the process to develop a model of the black box?**

**How might a drought-stopper system work?**

**Are all solutions made with soft-drink powder and water the same?**

**How can you determine which salt solution is more concentrated?**

**What is the relationship between salt-solution concentration and density?**

**Is there a limit to the amount of salt that will dissolve in 50mL of water?**

**What is the identity of the mystery substance?**

**What is in our water samples?**

**What is the effect of mixing two substances with water?**

**How can we identify the products from the baking soda and calcium chloride reaction?**

**What is the effect of mixing two substances with water?**

**What happens when you mix substances with water in a bag?**

**How can we identify the products from the baking soda and calcium chloride reaction?**

**What happens when you mix substances with water in a bag?**