

# 5th grade science mixtures and solutions

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Mixtures and Solutions in 5th Grade Science\*\*

### **What is a Mixture in 5th Grade Science?**

A mixture is a combination of two or more different substances that have not chemically reacted. The substances in a mixture retain their original properties.

### **Examples of Mixtures**

- Salt and water
- Sand and water
- Air (a mixture of gases)
- Salad (a mixture of vegetables)
- Soup (a mixture of liquids and solids)

### **What is a Solution in 5th Grade Science?**

A solution is a type of mixture where one substance (the solute) is evenly distributed throughout another substance (the solvent). The solute particles are so small that they cannot be seen with a microscope.

### **Examples of Solutions**

- Sugar dissolved in water
- Salt dissolved in water
- Kool-Aid powder mixed with water
- Lemonade (a solution of lemon juice, sugar, and water)

- Seawater (a solution of salt and water)

### **Difference Between a Solution and a Mixture**

- In a solution, the solute particles are evenly distributed and cannot be separated by filtration.
- In a mixture, the particles are not evenly distributed and can be separated by filtration or other methods.

### **Separating Mixtures and Solutions**

- **Filtration:** Can be used to separate solids from liquids or to separate two solids that have different particle sizes.
- **Decantation:** Can be used to separate liquids from solids that have different densities.
- **Evaporation:** Can be used to separate solids from liquids by turning the liquid into a gas.

### **20 Examples of Mixtures**

- Salt and pepper
- Cooking oil and vinegar
- Peanut butter and jelly
- Soil
- Cement
- Wood
- Paper
- Concrete
- Clouds
- Fog
- Smog
- Milk
- Blood

- Rocks
- Alloys
- Paint
- Shampoo
- Makeup
- Ink

### **10 Solutions Examples**

- Saline solution (salt dissolved in water)
- Sugar solution (sugar dissolved in water)
- Kool-Aid (sugar, flavoring, and citric acid dissolved in water)
- Lemonade (sugar, lemon juice, and water)
- Seawater (salt dissolved in water)
- Bleach (sodium hypochlorite dissolved in water)
- Alcohol (ethanol dissolved in water)
- Vinegar (acetic acid dissolved in water)
- Ammonia (ammonium hydroxide dissolved in water)
- Hydrogen peroxide (hydrogen peroxide dissolved in water)

### **3 Examples of Solutions**

- Sugar dissolved in water
- Salt dissolved in water
- Kool-Aid powder mixed with water

### **Salt Water: Mixture or Solution?**

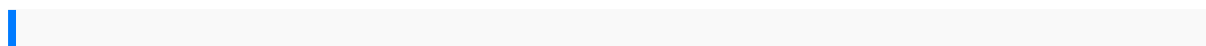
Salt water is a solution because the salt particles are evenly distributed throughout the water.

### **Kool-Aid: Mixture or Solution?**

Kool-Aid is a solution because the sugar and flavoring particles are evenly distributed throughout the water.

### **Lemonade: Mixture or Solution?**

Lemonade is a solution because the sugar and lemon juice particles are evenly distributed throughout the water.



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