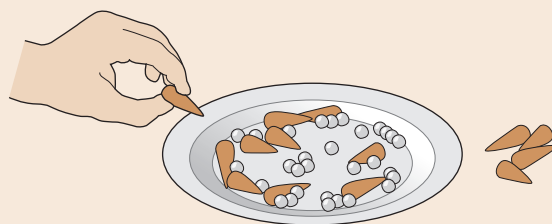


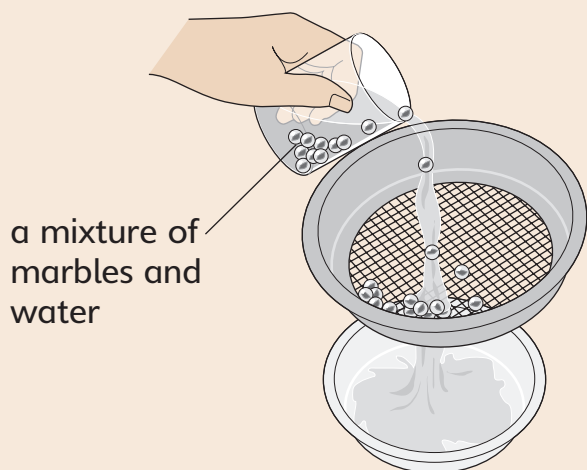
Separating mixtures



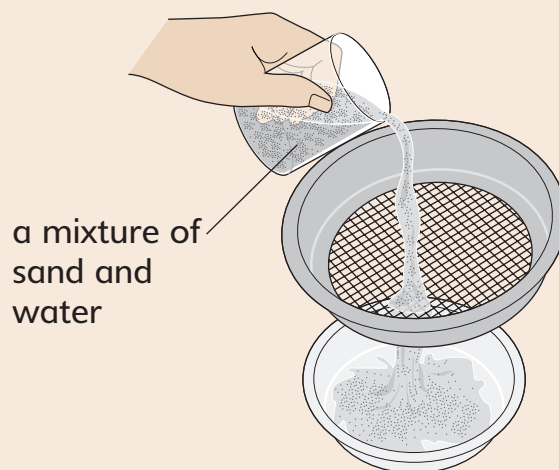
Fran has a bag of peas and carrots. The peas and carrots are a **mixture**. She can separate the mixture by picking the carrots out with her fingers.



You can use a sieve to help you to separate some mixtures. A sieve has holes in it that are big enough for some of the things in the mixture to go through. Bigger objects get trapped in the sieve. You can use a sieve to separate a mixture of marbles and water, but you cannot use one to separate sand and water.



a mixture of marbles and water



a mixture of sand and water



1. a) How can you separate a mixture of buttons and marbles?

b) Why can't you use this method to separate sand and water?

2. Why hasn't the sieve in the drawing separated the sand from the water?

Did you know...



Milk is a mixture of two liquids. It is made of tiny drops of fat mixed with water. There are some other chemicals dissolved in the water that stop the fat and the water separating.