

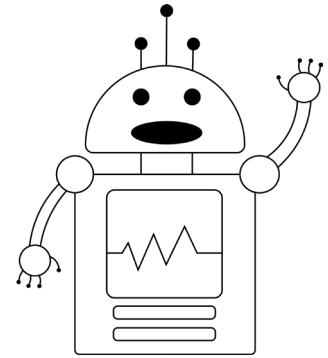
Date: \_\_\_\_\_

Name: \_\_\_\_\_

## Fill in the blank for Mechanical Mixtures

This activity was created by Zoe.

Hi! I need some help, when I opened this activity, some words were missing. Can you help sort the words from the word bank to fill in the blanks to complete each sentence?



### Word bank

Heterogeneous mixtures      Pure      Faster      Spaces  
Impure      Particles      Homogeneous mixtures

### Particle theory of matter:

1. All matter is made up of tiny \_\_\_\_\_.
2. The particles of matter are always moving.
3. The particles have \_\_\_\_\_ between them.
4. Adding heat to matter make the particles move \_\_\_\_\_.

Everything in our world is made up of matter, and different types of substances can be created from it. A substance that is made up of only a single type of particle is called a \_\_\_\_\_ substance, whereas a substance that is made up of more than one type of particle is called an \_\_\_\_\_ substance. A non-pure substance can be sorted into two different categories. These two categories are:

1. Mechanical mixtures
2. Solutions

A mechanical mixture is when more than one type of matter is clearly visible within a substance. A solution is when a substance is made up of more than one pure substance, however it appears as though it is one type of substance. Another set of names for these different mixtures are homogeneous and heterogeneous. Homogeneous means that the mixture is uniform, and heterogeneous means the mixture is non-uniform. From the above definitions we can conclude that mechanical mixtures can also be classified as \_\_\_\_\_, and solutions can be classified as \_\_\_\_\_.

