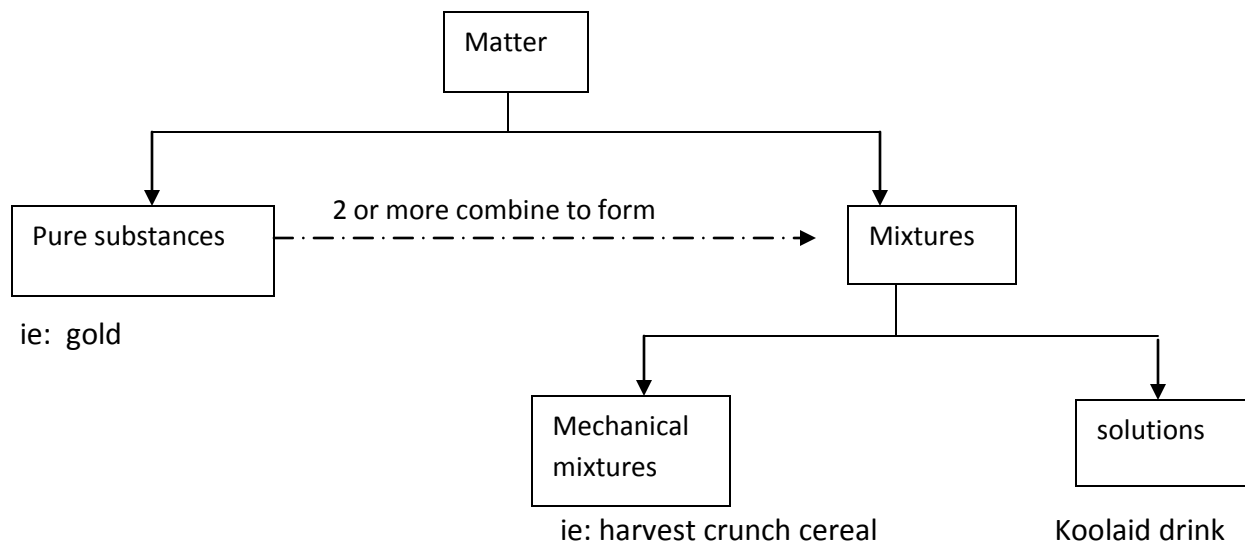


Types of Matter

Matter: is anything with mass that takes up space.



Use your text (section 5.1) to write definitions for:

Pure substance: _____

Mixture: _____

Mechanical Mixture _____

Solution: _____

Alloy: A special solution

When we hear the word 'solution', we think of a liquid. But an alloy is a mixture of 2 or more substances that is a solid! Pure gold is 24K gold (all gold). But pure gold is very soft and wears out quickly; that is not good if you wish to wear that jewellery for a long time! So jewelers have figured out if you mix copper with gold (say 18 parts gold, 6 parts copper) you get a solution (mixture where you can not see the parts) and this 18 K gold doesn't wear out so easily. 18K gold LOOKS like gold but doesn't wear out so quickly because of the copper.

Alloys take advantage of the different properties of different metals.

Define alloy: _____

Solder:

Read 5.1 – find the section on ‘alloys’ and find the answers to the following questions.

1. What is solder?

2. What is solder used for?

3. Where is solder applied?

4. Lead is one substance in the solder mixture. What physical properties does lead have (2 of them) that makes it **ideal** for soldering?

• _____

• _____

5. There are some **concerns** about using lead. What **not-so-ideal** property does lead have?

• _____