

1.12 - Putting Metals to Work

Read p. 36-37 in your textbook and fill in the blanks.

alloy: mixture of metals

examples of alloys: airplane parts, braces, bronze

How is a metal or alloy chosen for use? Based on its properties.

Metals and Alloys

What are the physical properties of metal alloys used in braces:

1. stiff but bend to fit teeth

2. springy to push teeth into position

What are the chemical properties of metal alloys used in braces:

1. do not react with saliva

2. do not react with food

Name 3 metals that are used in jewellery. gold, silver, platinum

Why are these metals used for jewellery? No marks on skin, don't react with air.

Heavy Metals

Heavy metals are required in small amounts in healthy plants and animals.

Some examples of heavy metals are lead, mercury

In large quantities, these very heavy metals can damage plants + animals

Lead and mercury in humans affect the nervous system + brain

How is lead and mercury being reduced in the environment?

1. lead free paint + gasoline

2. _____

How was mercury used in the past?

pulp + industrial plants

Hats,

Answer questions 1-4 on p. 37.