

3.12 CONDENSATION POLYMERISATION

This is because they contain polar bonds

Permanent dipole-dipole and hydrogen bonds exist between polymer chains

Condensation polymers are stronger and more rigid than addition polymers

Reactions in which monomers join together

Involve monomers with two functional groups

Reactions between amino acids...

..Produces polypeptides (proteins)

..produces polyamides

Dicarboxylic acids and diamines..

Dicarboxylic acids and diols..

...Produces polyesters

Water molecule is lost

Hydrolysis of condensation polymers will produce the original monomers

They can undergo hydrolysis since they have polar bonds in their chains

Repeating Units

Amid Links

Ester Links

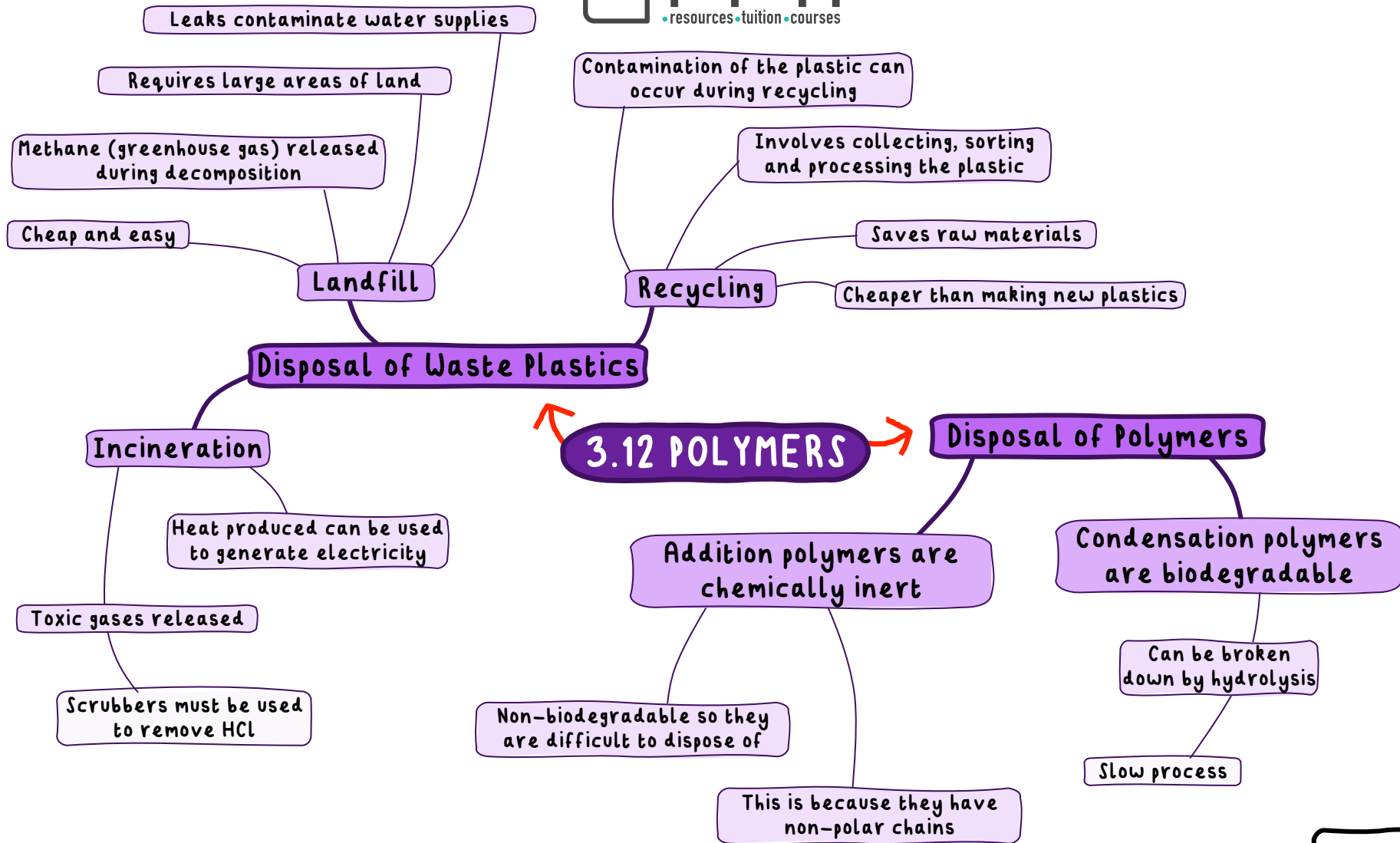
Linkages between repeating units

The part of a polymer whose repetition would produce the complete polymer chain

Draw the repeating units of Terylene, nylon-6,6 and Kevlar

AQA





AQA

