## **N5: Polymers**

Polymer:	molecules formed by joining together a	
large number of	molecules called	are an
example of	polymers.	
Monomer:	molecule used to form a	
Addition polymerisation:	chemical reaction in which	
join to	ogether to form a .	

## Naming polymers

Polymers names are derived from the monomer name. Brackets can be used to aid identification of the monomer.

E.g. the monomer ethene will make the polymer, poly(ethene).



Monomer	Polymer
Propene	
	Poly(but-2-ene)
Vinyl chloride	
	Poly(ethyleneterephthalate)
Tetrafluoroethene	
	Poly(styrene)
Oxyethylene	

The structure of a polymer can be drawn by showing three monomer units joining together:

Draw the structure of the polymer made by joining three monomer units together in each case:

The structure of a polymer can be simplified to a repeating unit, this is the shortest section of the polymer that if repeated would create the full chain.

The monomer can then be identified from the repeating unit.

Identifying the monomer for each polymer/repeating unit