

## Homework – Nature’s Chemistry Revision

1. Complete the table

Monomer	Polymer (with three repeating units)	Repeating unit
$\begin{array}{c} \text{CH}_3 \text{ Cl} \\   \quad   \\ \text{C} = \text{C} \\   \quad   \\ \text{Br} \quad \text{H} \end{array}$	$\begin{array}{cccccc} \text{CH}_3 & \text{Cl} & \text{CH}_3 & \text{Cl} & \text{CH}_3 & \text{Cl} \\   &   &   &   &   &   \\ -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C}- \\   &   &   &   &   &   \\ \text{Br} & \text{H} & \text{Br} & \text{H} & \text{Br} & \text{H} \end{array}$	$\begin{array}{c} \text{CH}_3 \text{ Cl} \\   \quad   \\ -\text{C} - \text{C}- \\   \quad   \\ \text{Br} \quad \text{H} \end{array}$
$\begin{array}{c} \text{Br} \quad \text{Br} \\   \quad   \\ \text{C} = \text{C} \\   \quad   \\ \text{Br} \quad \text{H} \end{array}$		
	$\begin{array}{cccccc} \text{Cl} & \text{Br} & \text{Cl} & \text{Br} & \text{Cl} & \text{Br} \\   &   &   &   &   &   \\ -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C}- \\   &   &   &   &   &   \\ \text{Br} & \text{H} & \text{Br} & \text{H} & \text{Br} & \text{H} \end{array}$	
		$\begin{array}{c} \text{Br} \quad \text{CH}_3 \\   \quad   \\ -\text{C} - \text{C}- \\   \quad   \\ \text{CH}_3 \quad \text{H} \end{array}$
	$\begin{array}{cccccc} \text{F} & \text{F} & \text{F} & \text{F} & \text{F} & \text{F} \\   &   &   &   &   &   \\ -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C}- \\   &   &   &   &   &   \\ \text{F} & \text{F} & \text{F} & \text{F} & \text{F} & \text{F} \end{array}$	

## 2. Complete the table

Monomer	Polymer (with three repeating units)	Repeating unit
	$  \begin{array}{cccccc}  \text{F} & \text{NH}_2 & \text{F} & \text{NH}_2 & \text{F} & \text{NH}_2 \\    &   &   &   &   &   \\  -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C}- \\    &   &   &   &   &   \\  \text{F} & \text{F} & \text{F} & \text{F} & \text{F} & \text{F}  \end{array}  $	
		$  \begin{array}{cc}  \text{H} & \text{H} \\    &   \\  -\text{C} & -\text{C}- \\    &   \\  \text{H} & \text{H}  \end{array}  $
$  \begin{array}{cc}  \text{OH} & \text{F} \\    &   \\  \text{C} & =\text{C} \\    &   \\  \text{Br} & \text{F}  \end{array}  $		
$  \begin{array}{cc}  \text{Cl} & \text{H} \\    &   \\  \text{C} & =\text{C} \\    &   \\  \text{Br} & \text{Cl}  \end{array}  $		
	$  \begin{array}{cccccc}  \text{O} & \text{OH} & \text{O} & \text{OH} & \text{O} & \text{OH} \\  // &   & // &   & // &   \\  -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C}- \\    &   &   &   &   &   \\  \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H}  \end{array}  $	