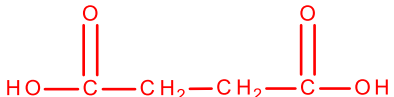
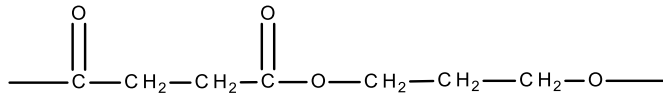
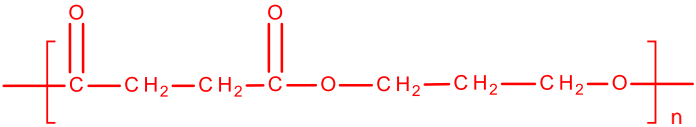
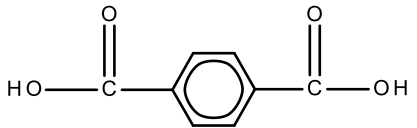

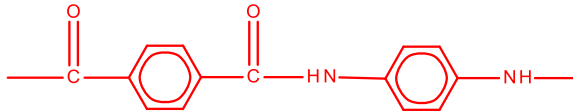
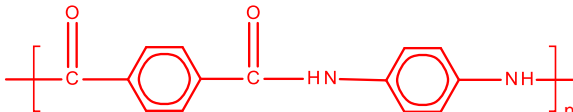
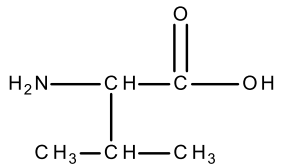
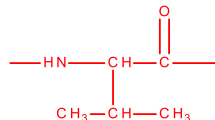
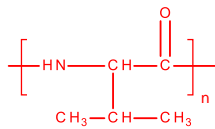
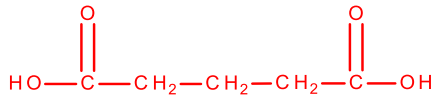
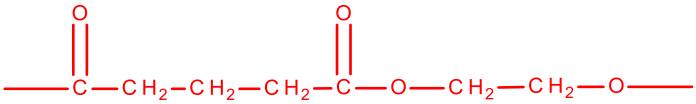
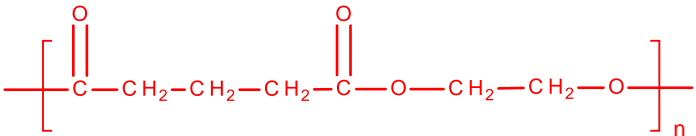
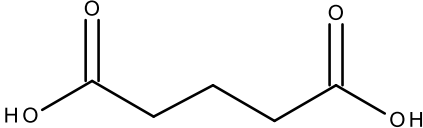
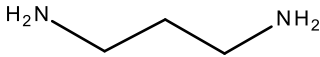
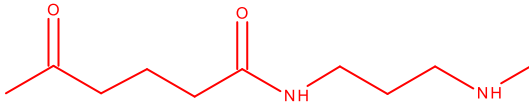
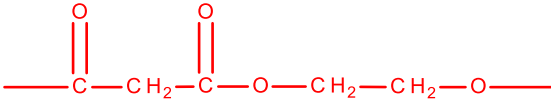




ADDITION & CONDENSATION POLYMERS

| Monomer | | Polymer | | |
|--------------------|--|--------------------------|-----------|----------------|
| Name | Structure | Name | Structure | Repeating unit |
| chloroethene | $\begin{array}{c} & \\ \text{C} & = & \text{C} \\ & \end{array}$ | poly(chloroethene) | | |
| propene | | poly(propene) | | |
| ethenol | | poly(ethenol) | | |
| <i>E</i> but-2-ene | | poly(<i>but</i> -2-ene) | | |
| dichloropropene | | poly(dichloropropene) | | |

| Monomer 1 (name & structure) | Monomer 2 (name & structure) | Polymer | |
|--|---|----------------|---|
|  <p>butane-1,4-dicarboxylic acid</p> | $\text{HO}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{OH}$ <p>propane-1,3-diol</p> | repeating unit |  |
| | | structure |  |
|  <p>benzene-1,4-dicarboxylic acid</p> |  <p>1,4-diaminobenzene</p> | repeating unit |  |
| | | structure |  |
|  <p>2-amino-3-methylbutanoic acid</p> | only one monomer | repeating unit |  |
| | | structure |  |
|  <p>pentane-1,5-dioic acid</p> | $\text{HO}-\text{CH}_2-\text{CH}_2-\text{OH}$ <p>ethane-1,2-diol</p> | repeating unit |  |
| | | structure |  |

| Monomer 1 (name & structure) | Monomer 2 (name & structure) | Polymer | |
|--|---|----------------|---|
| $\text{NH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{C}(=\text{O})-\text{OH}$ <p>4-aminobutanoic acid</p> | <p>only one monomer</p> | repeating unit | $\text{---NH---CH}_2\text{---CH}_2\text{---CH}_2\text{---C}(=\text{O})\text{---}$ |
|  <p>pentane-1,5-dicarboxylic acid</p> |  <p>1,3-diaminopropane</p> | structure | $\left[\text{NH---CH}_2\text{---CH}_2\text{---CH}_2\text{---C}(=\text{O}) \right]_n$ |
| $\text{HO---CH}_2\text{---CH}_2\text{---C}(=\text{O})\text{---OH}$ <p>3-hydroxypropanoic acid</p> | <p>only one monomer</p> | repeating unit |  |
| $\text{Cl---C}(=\text{O})\text{---CH}_2\text{---C}(=\text{O})\text{---Cl}$ <p>propane-1,3-dicly chloride</p> | $\text{HO---CH}_2\text{---CH}_2\text{---OH}$ <p>ethane-1,2-diol</p> | structure | $\left[\text{---O---CH}_2\text{---CH}_2\text{---C}(=\text{O}) \right]_n$ |
| | | repeating unit |  |
| | | structure | $\left[\text{---C}(=\text{O})\text{---CH}_2\text{---C}(=\text{O})\text{---O---CH}_2\text{---CH}_2\text{---O---} \right]_n$ |