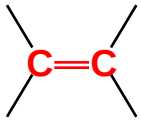
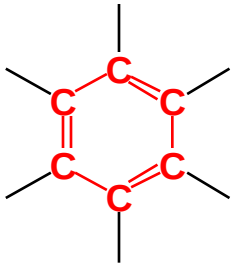
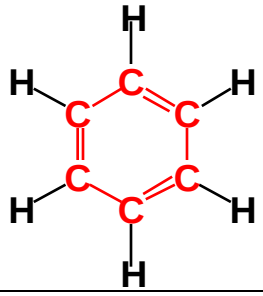
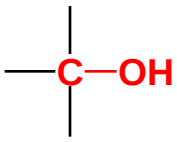
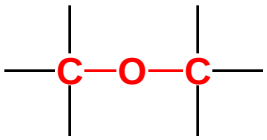
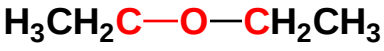
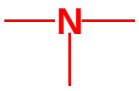
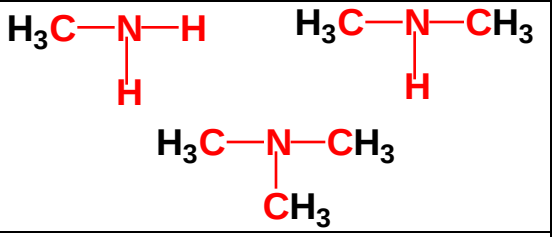
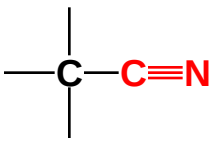
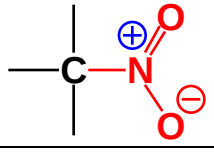
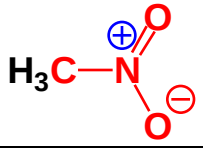
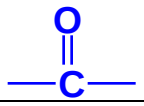
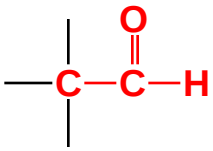
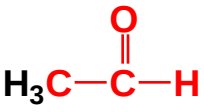
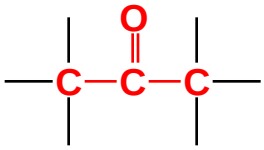
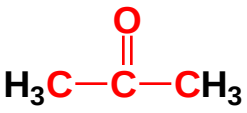
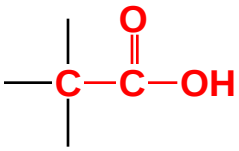
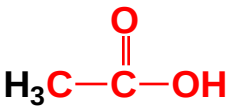
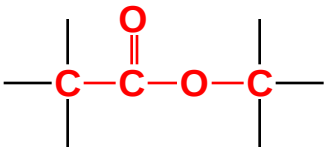
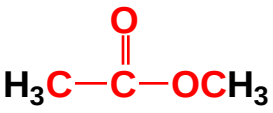
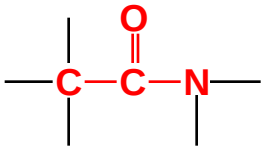
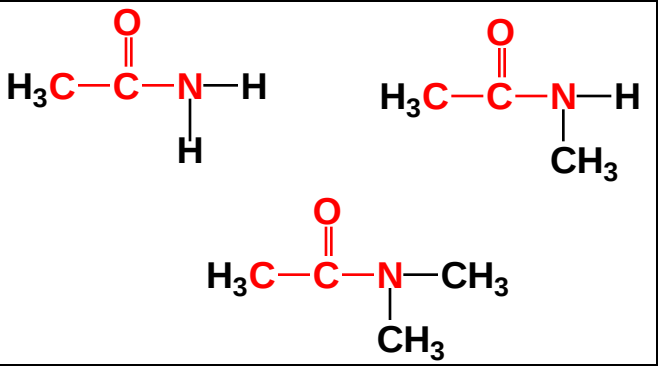
**Functional Groups to Know and Love**

| Family Name | Functional group structure | Simple example |
|---|---|---|
| Alkane | Contains only C-H and C-C single bonds |  |
| Alkene |  |  |
| Alkyne |  |  |
| Arene |  |  |
| Halide |  |  |
| Alcohol |  |  |
| Ether |  |  |
| Amine |  |  |
| Nitrile |  |  |
| Nitro |  |  |

| Family Name | Functional group structure | Simple example |
|---|---|---|
| Carbonyl |  | |
| Aldehyde |  |  |
| Ketone |  |  |
| Carboxylic acid |  |  |
| Ester |  |  |
| Amide |  |  |