

### 6.7 & 5.8 Producing Plants Without Seeds

All species must reproduce. In sexual reproduction, genetic information from two cells is combined to make a zygote that develops into a new organism. In asexual reproduction, a single organism produces a genetically identical offspring. There are five types of asexual reproduction:

1. binary fission – one organism splits into two organisms
2. budding – the offspring begins as a small growth on the parent and eventually breaks off
3. fragmentation – a new organism is formed from a part that breaks off from the parent
4. spore formation – many small identical cells, called spores, are produced that can develop into mature organisms

vegetative reproduction – runners are produced that can develop into a new plant.