Evolution Study Sheet

1.	evolution	Process by which species change over time, driven by natural selection and other mechanisms.
2.	natural selection	Mechanism of evolution where organisms with advantageous traits survive and reproduce.
3.	adaptation	Trait that increases an organism's fitness for its environment, developed through natural selection.
4.	Charles Darwin	English naturalist who proposed the theory of evolution by natural selection.
5.	fossil record	Collection of preserved remains and traces of past life used to study evolution.
6.	homologous structures	Similar structures in different species inherited from a common ancestor, indicating evolutionary relationships.
7.	vestigial organs	Structures in organisms with reduced or no function, suggesting evolutionary remnants.
8.	speciation	Formation of new species through reproductive isolation and genetic divergence.
9.	embryology	Study of embryo development providing evidence for evolutionary relationships.
10.	biogeography	Study of the distribution of species and ecosystems, influenced by historical and evolutionary factors.
11.	comparative anatomy	Comparison of anatomical structures across different species to study evolutionary relationships.
12.	gene flow	Movement of genes between populations, influencing genetic variation and evolution.
13.	genetic drift	Random changes in gene frequencies within a population, impacting evolution.
14.	mutation	Source of genetic variation resulting from changes in DNA sequences.
15.	fitness	Measure of an organism's reproductive success and survival in its environment.
16.	convergent evolution	Evolutionary process where unrelated species develop similar traits due to similar environmental pressures.
17.	divergent evolution	Evolutionary process where a common ancestor gives rise to diverse species adapted to different environments.
18.	selective pressure	Environmental factors influencing the survival and reproduction of organisms, driving natural selection.