

Key

EVIDENCES FOR EVOLUTION NOTE SHEET

KEY CONCEPT	EXPLANATION	EXAMPLES/EXTRA INFO
JEAN LAMARK 1700's → not Right!	Organisms can acquire traits during their lifetime, & pass them onto their offspring.	A blacksmith got big muscles from his daily work, thus he will have kids w/ muscles
CHARLES DARWIN 1800's - Father of modern EVO. Theory.	Introduced evolution by <u>Natural Selection</u> that was supported by a mountain of evidence	Finch beak Evolution from ancestor. Galap. tortoises adapted to diff. islands.
ALFRED RUSSEL WALLACE	Contemporary of Darwin... Also came up w/ similar ideas of Evolution @ same time.	
NATURAL SELECTION - Best genes hypothesis.	3-Key parts. ① All Population have Variations. ② Organisms produce more offspring than Envir. can support. ③ offspring w/ beneficial traits survive & reproduce more often.	Finches adapting because of food sources. Bacteria becoming resistant to antibiotics. Camouflage - etc.
ARTIFICIAL SELECTION Selective Breeding	Humans choose favorable traits & breed for them. Offspring w/ same trait are selected & bred again.	Domesticated Dogs Horses Cats Cows etc.
MIMICRY (ADAPTATION)	Organisms evolve to "copy" another that is dangerous, e.g. Poisonous	Non poisonous Colored frog mimics Poisonous Colored frog
CAMOUFLAGE (ADAPTATION)	Organisms evolve colorations etc. to blend w/ environment to either avoid predators, or to hide from prey	Peppered Moth w/ trees All Camo
FOSSIL RECORD	Collection of evidences that show the organisms that have lived on the earth. 99% extinct!	Dinosaurs. etc.
TRANSITIONAL FOSSILS	Key fossils that show intermediate forms, or that show changes in a line of decent.	Whale fossils. like durodon & basilosaurus. Horse fossils with fingers & toes. Elephants w/ shorter trunks