Early Evolutionary Thinkers

Name:	Period:	_
		_

Lamarck

- 1. What are 2 observations that Lamarck makes and what is the inference he makes based on these observations?
- 2. What observation can you come up with which disproves the inference of Lamarck?
- 3. Can you propose any other explanations for Lamarck's observations about the disuse and use of organs?

Wallace

- 4. What do you think of Wallace's idea that "The life of wild animals is a struggle for existence?" How is his view scientific?
- 5. Wallace claims that "useful variations will tend to increase, unuseful or hurtful variations to diminish." How does this occur? What are 2 evidences he cites?
- 6. What does this have to do with allele frequency in a population?
- 7. How does Wallace's explanation of the change in species over time differ from Lamarck's?
- 8. What do you think of Wallace's critique of Lamarck's hypotheses?

Darwin

- 9. What event in Darwin's life led him to formulate his ideas about the origin of species?
- 10. How did Wallace influence Darwin? Whose papers ended up being published first?
- 11. Why did Darwin think the environment (external conditions) was not solely responsible for modifications in species? What are 2 evidences that he cites?
- 12. How did Darwin attempt to determine how modifications of a species are accomplished?
- 13. How was the work of Mendel important to Darwin (hint: think about the answer to number 12)
- 14. How did Darwin explain the incomplete nature of his ideas?
- 15. What did Darwin think the main means of modification for species was?

Quiz: Lamarck

_,	
1.	How did Lamarck explain the change in a species over time?
2.	Explain one observation Lamarck used and the inference he drew from it.
3.	Using the words trait and allele frequency explain how evolution actually occurs.
Q	uiz: Wallace
1.	How did Wallace explain the change in a species over time?
2.	Explain one observation Wallace used and the inference he drew from it.
3.	Using the words trait and allele frequency explain how evolution actually occurs.
Q	uiz: Darwin
1.	How did Darwin explain the change in a species over time?
2.	Explain one observation Darwin used and an inference he drew from it.
3.	Using the words trait and allele frequency explain how evolution actually occurs.