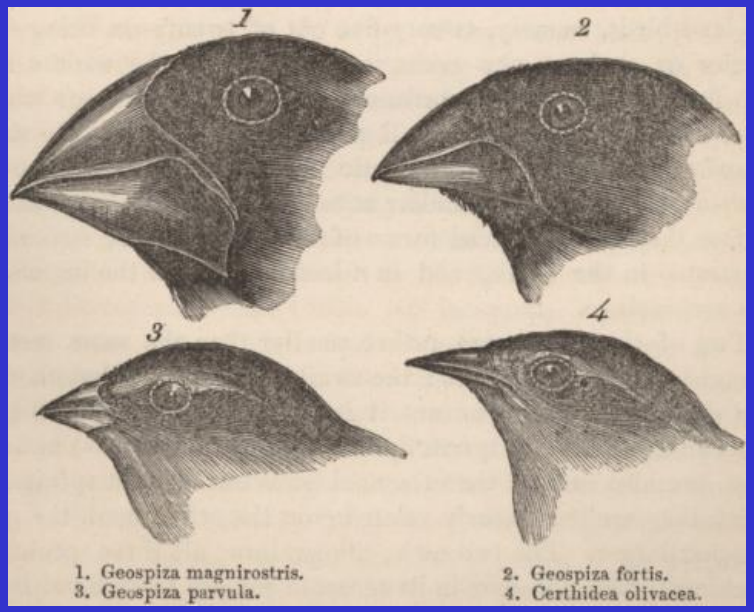
Evolution

JEOPARDY!

Darwinian Evolution	Evolution Nitty-Gritty	Evidence & Misconceptions	Selection & Speciation
100	100	100	100
200	200	200	200
300	300	300	300
400	400	400	400
500	500	500	500

Darwinian Evolution
100



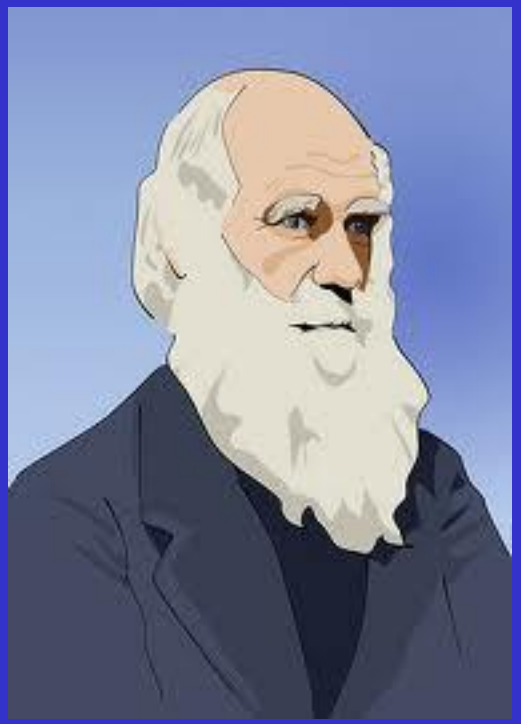
•What are the name of the islands where Darwin observed the diverse species of finches and tortoises?

http://www.life.uiuc.edu/plantbio/102/lectures/08mit&veg102.html

Darwinian Evolution
200

How did Darwin's trip aboard the H.M.S. Beagle spark the theory of evolution?

HINT: Think about the finches



http://www.life.uiuc.edu/plantbio/102/lectures/08mit&veg102.html

Darwinian Evolution
300

What are Darwin's four (4) principles that are required for evolution to occur?

http://www.life.uiuc.edu/plantbio/102/lectures/08mit&veg102.html

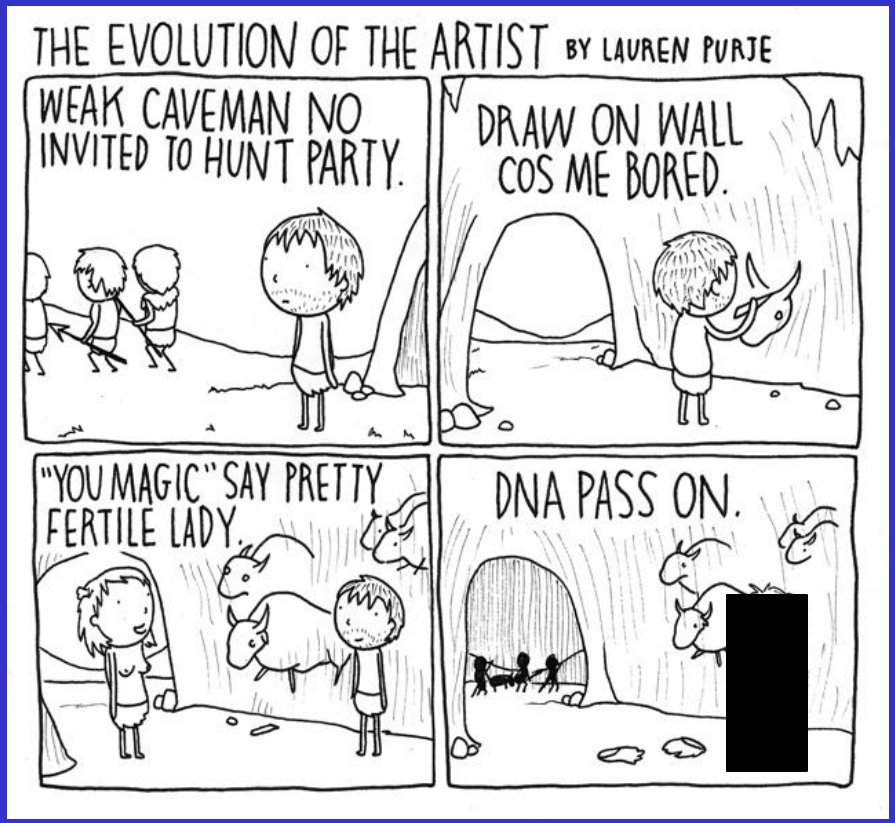
Darwinian Evolution
400

Name three (3) important observations Darwin made during his trip on the H.M.S. Beagle

http://www.life.uiuc.edu/plantbio/102/lectures/08mit&veg102.html

Darwinian Evolution

500



Why is sexual reproduction important for increasing variation in a species?

Hypothesize hat would happen if we reproduced asexually. Predict what you think would happen if a virus or bacteria evolved the ability to kill a single human.

Evolution Nitty- Gritty
100

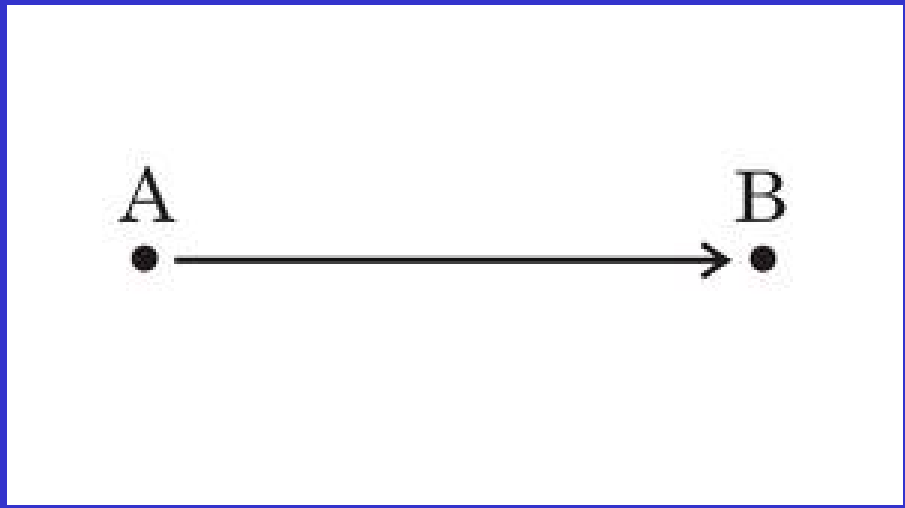
Connect two of the following words and explain your reasoning:

-Fitness

-Adaptation

-Species

-Theory



Evolution Nitty- Gritty
200

How does Darwin's principle of descent with modification explain the characteristics of today's species?

Evolution Nitty- Gritty

300

Design an experiment that would allow you to test for or observe evolution

Evolution Nitty- Gritty

400

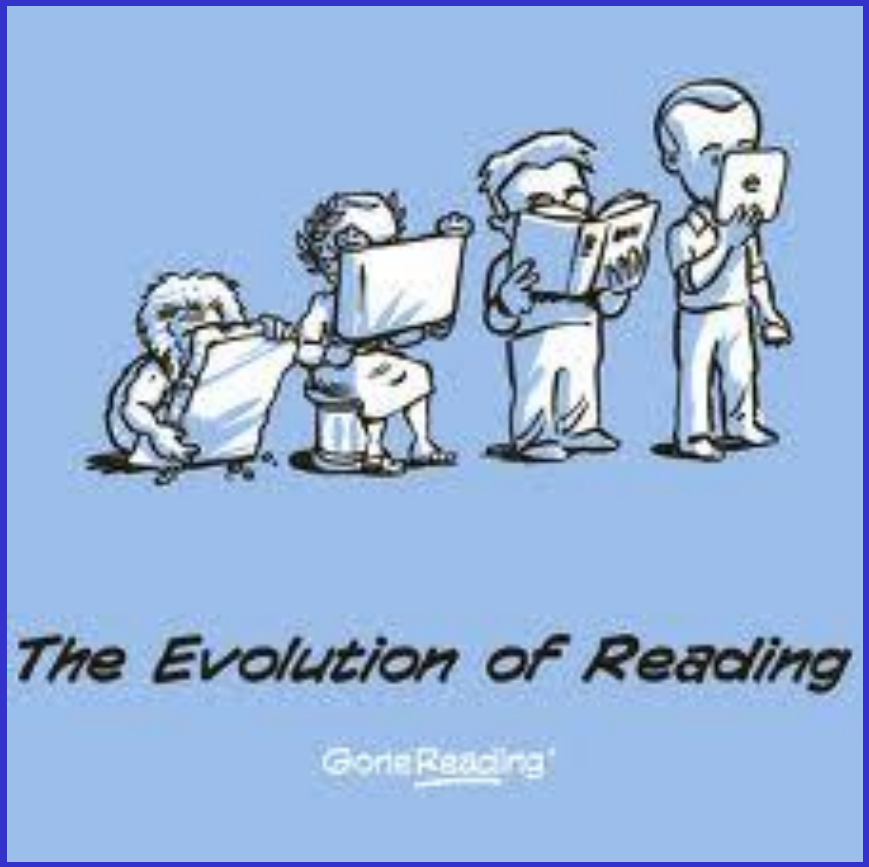
Although wild turkeys can fly, domesticated turkeys cannot. Suppose that a population of domesticated turkeys escaped from a farm into a new environment. Give examples of environmental conditions that might determine whether that population would survive over time.

Evolution Nitty- Gritty
500

How does natural variation affect evolution?

Evidence & Misconceptions
100

Name two (2) important pieces of evidence that support evolution



Evidence & Misconceptions 200

Predict why we don't see species in areas that seem perfectly suited to their needs

-For example, rabbits are not native to Australia even though they have open, grassy fields

Evidence & Misconceptions
300

How would a scientist define a theory?

How would an average person define a theory?

How are these definitions different? Why is it important to distinguish between these two definitions?

Evidence & Misconceptions
400

Why is the following statement incorrect:

Evolution involves species “trying” to adapt. Natural selection gives individuals what they need.

-Think in terms of traits, inheritance, and the timing required for evolution to occur

Evidence & Misconceptions

500

Do humans come from monkeys? Explain your reasoning, using specific examples to support your statement.

Types of Selection
100

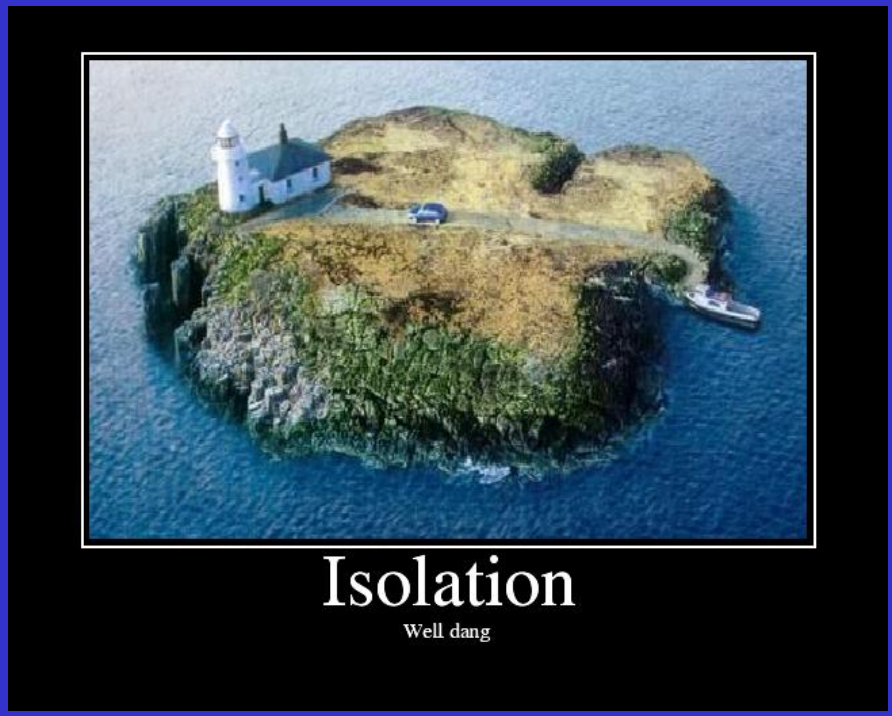
How do stabilizing and disruptive selection differ? Provide an example of each

Types of Selection
200

Name three (3) ways one species can split off and become two species

Types of Selection
300

Explain how isolation in small groups can be involved in speciation



Types of Selection

400

Why are selective pressures critical for evolution to occur?

How can different selective pressures affect evolution? That is, how is the result altered by the cause?

Types of Selection
500

Select an adaptation of a plant or an animal. Write a scenario explaining how the trait might have evolved according to Darwin.