


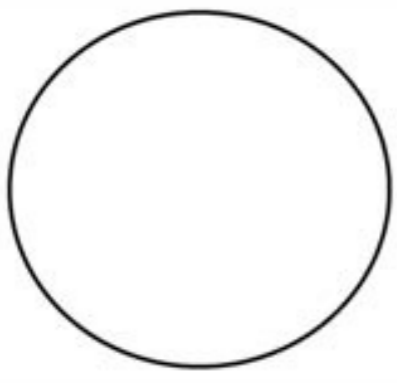
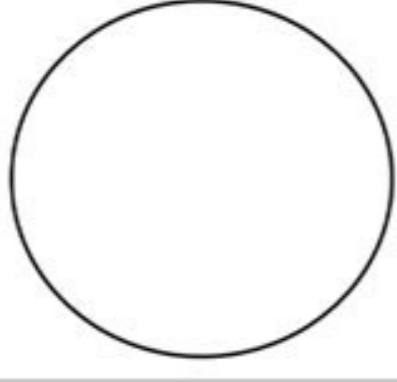
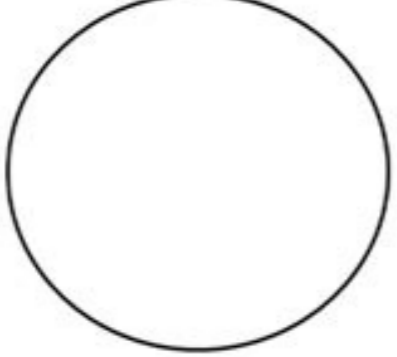
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Modernization of Atomic Theory

Name: _____ Period: _____ Date: _____

Fill in the chart below (sketch the models - look on pg114 for help) and answer the questions which follow.

Scientist	Discovery	Model
Dalton		
Thomson		
Rutherford		

AIR BRAKES TEST

- You should know that your brakes are fading when?
 - You have to push harder on the brake pedal to control your down hill speed**
 - The brake pedal feels spongy when you apply pressure
 - Pressure on the brake pedal is released and speed increases
- If the spring brakes are on when should you push the brake pedal?
 - Only when driving down hill
 - Only on a slippery road
 - Never**
- Repeatedly pressing and releasing (fanning) the brake pedal may result in?
 - A loss of air pressure**
 - A build up of air pressure
 - No change in brake air pressure
- The driver must be able to see a low air pressure warning which comes on before pressure in the service air tank falls below _____ PSI
 - 40
 - 60**
 - 80
- If your truck or bus has dual parking control valves you can use pressure from a separate tank
 - To balance the service brake system when you are parked
 - To stay parked twice as long without using up service air pressure
 - To release the emergency/spring/parking brakes to move a short distance**
- The brake pedal in a air brake system
 - Controls the speed of the air compressor
 - Controls the air pressure applied to put on the brakes**
 - Is connected to slack adjusters by a series of rods and linkages
- To check the free play of manual slack adjusters of S-Cam brakes, you should
 - Park on level ground and apply the parking brakes
 - Park on a slight grade, release the parking brakes
 - Park on level ground, chock the wheels, release the parking brakes and pull on the slack adjusters**
- Parking or emergency brakes on trucks or buses can be legally held on by _____ Pressure.
 - Spring**
 - Fluid

NAME: _____

DATE: _____

QUIZ: WRITING

● Answer these fourteen questions to score your vocabulary knowledge.

- Many people do this to try to get ideas before they start writing.
 - add an apostrophe
 - erase something
 - describe
 - brainstorm
- Which of the following is an example of a 'capital letter'?
 - e
 - "h"
 - A
 - m
- Which of the following can you find at the end of a story or essay?
 - a conclusion
 - a comma
 - a consonant
 - a contraction
- When people 'double-space', it means they
 - write on every second line
 - write the body of an essay
 - write a first draft
 - write on every line
- Which of the following do people do when they 'edit' something?
 - they let many people read it
 - they change it to make it better
 - they write their name on it
 - none of the above
- Which of the following does 'indent' mean?
 - make sure your handwriting is good
 - peer edit
 - add a period at the end of a sentence
 - add space at the start of a paragraph
- In which of the following places should you write an 'introduction'?
 - in the first paragraph
 - in the second paragraph
 - in the last paragraph
 - all of the above
- Which of the following things should you write in the 'margin' of a paper?
 - your name
 - nothing
 - an essay
 - today's date
- Why do many people write an 'outline' before they start writing?
 - they want to write a second draft
 - they want to use good grammar
 - they want to organize their ideas
 - they want to write on lined paper
- Why do many people 'proofread' their writing?
 - they want to get more ideas
 - they feel bored
 - they want to find mistakes
 - they enjoy reading
- Which of the following is an example of 'punctuation'?
 - a colon
 - a question mark
 - an exclamation mark
 - all of the above
- In which part of an essay do many people 'summarize' their ideas?
 - in the introduction
 - in the body
 - in the conclusion
 - all of the above
- In which of the following places should you write a 'title'?
 - at the top of the page
 - at the bottom of a page
 - in the second paragraph
 - on an author
- Which of the following can make your writing more interesting?
 - commas
 - contractions
 - details and vocabulary
 - hyphens and consonants

13 – 14 = Excellent

11 – 12 = Good

9 – 10 = Study More!

Evidence of Evolution Notes

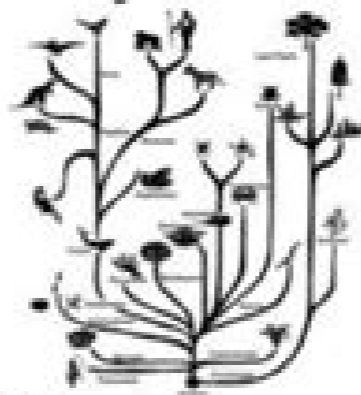
Name: _____

Evolution

- Evolution means _____.
- Evolution occurs through _____, which is also known as _____.
- Can also occur through _____. An example of artificial selection is _____.

Speciation

- Natural selection can explain how _____ occurs, when one species evolves into a new species. Speciation happens in 3 steps.
 - _____ - a portion of the species becomes isolated. Examples of how _____ occurs include _____, _____, or a _____.
 - _____ - as the environment changes, so does the population that lives there. Over many generations the separated group adapts to their environment.
 - _____ - over many generations, the two groups of populations are so different they can no longer interbreed. They are no longer the same species.



Evidence for Evolution

Common Ancestor

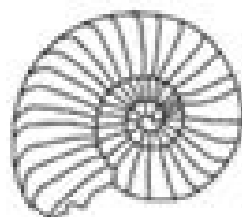
- Scientists believe living things evolve from a common ancestor.

Fossils

- _____ - the solidified remains or imprints of once living organisms
- Usually formed in sedimentary rock, there are 2 types of fossils. _____ are an imprint of the once living organism. _____ are a preserved form of the organism.

Fossil Record

- _____ - a historical sequence of life, supplying evidence about the order in which evolutionary changes occurred.
- Older fossils are buried deeper. Newer fossils are found closer to the Earth's surface.
- Gaps in the fossil record exist because the conditions necessary to make fossils do not always occur.



DEFINITIONS 1 In the space provided, explain each of the terms or symbols below.

1. a tempo
2. de capo
3. allegro
4. sotto voce
5. vivace
6. legato
7. staccato
8. _____
9. _____
10. P
11. M
12. F
13. S
14. T
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

Mitochondria and chloroplasts have their own ribosomes that have 30S and 50S subunits, not 40S and 60S. Although evidence is less convincing, it is also possible that flagella and cilia may have come from spirochetes. The endosymbiotic theory states that some of the organelles in today's eukaryotic cells were once prokaryotic microbes. This model has an amitochondriate eukaryote engulfing an aerobe and then a cyanobacterium. Was this article helpful? Thank you very much for your cooperation. Several more primitive eukaryotic microbes, such as Giardia and Trichomonas have a nuclear membrane but no mitochondria. In this theory, the first eukaryotic cell was probably an amoeba-like cell that got nutrients by phagocytosis and contained a nucleus that formed when a piece of the cytoplasmic membrane pinched off around the chromosomes. Mitochondria and chloroplasts have their own DNA that is circular, not linear. from Kelvinsong The endosymbiotic theory states that mitochondria and chloroplasts in today's eukaryotic cells were once separate prokaryotic microbes. Score: 0% Rank: Correct Answer: Score: 0% Rank: Correct Answer: Page ID3220 Gary KaiserCommunity College of Baltimore County (Cantonsville) It is thought that life arose on earth around four billion years ago. Mitochondria and chloroplasts cannot grow outside their host cell. Figure \(\PageIndex{1}\): One model for the origin of mitochondria and plastids. Evidence for this is based on the following: Chloroplasts are the same size as prokaryotic cells, divide by binary fission, and, like bacteria, have Fts proteins at their division plane. Mitochondria formed when bacteria capable of aerobic respiration were ingested; chloroplasts formed when photosynthetic bacteria were ingested. Some of these amoeba-like organisms ingested prokaryotic cells that then survived within the organism and developed a symbiotic relationship. The mitochondria are the same size as prokaryotic cells, divide by binary fission, and the mitochondria of some protists have Fts homologs at their division plane. In order to continue enjoying our site, we ask that you confirm your identity as a human. They eventually lost their cell wall and much of their DNA because they were not of benefit within the host cell. Thank you for your participation! Score: 0% Rank: Correct Answer:

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