Natural Sciences Biology Chapter

9

Author: Michael Sag

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- 4. Chapter: Biology Chapter 9
- 1. Biology Chapter 9 Questions

| 4.1.1. In the process of aerobic respiration, organisms us | e and |
|--|-------|
|--|-------|

Author: Michael Sag

In the process of aerobic respiration, organisms use _____ and give off ______.

Please choose only one answer:

- oxygen ; carbon dioxide
- carbon dioxice ; oxygen
- water ; carbon dioxide
- oxygen ; oxygen

Check the answer of this question online at QuizOver.com: Question: In the process of aerobic respiration organisms Michael Chapter 9

Flashcards:

http://www.quizover.com/flashcards/question-in-the-process-of-aerobic-respiration-organisms-michael-chapt?pdf=1505

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4.1.2. In cellular respiration, a two-carbon molecule combines with a four...

Author: Michael Sag

In cellular respiration, a two-carbon molecule combines with a four-carbon molecule to form citric acid as part of

Please choose only one answer:

- glycolysis
- carbon fixation
- the Krebs cycle
- the ETC

Check the answer of this question online at QuizOver.com: Question: In cellular respiration a two-carbon molecule Michael Chapter 9 Quest

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4.1.3. At most, how many molecules of ATP can be produced per glucose mole...

Author: Michael Sag

At most, how many molecules of ATP can be produced per glucose molecule in aerobic cellular respiration?

Please choose only one answer:

- 2
- 8
- 24
- 36
- 75

Check the answer of this question online at QuizOver.com: Question: At most how many molecules of ATP can be Michael Sag Chapter 9 Quest

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4.1.4. Which of the following is not part of cellular respiration?

Author: Michael Sag

Which of the following is not part of cellular respiration?

Please choose only one answer:

- ETC
- glycolysis
- The Krebs cycle
- the Calvin Cycle

Check the answer of this question online at QuizOver.com: Question: Which of the following is not part of cellular Michael Chapter 9

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4.1.5. Cellular respiration is called an aerobic process because it requires

Author: Michael Sag

Cellular respiration is called an aerobic process because it requires

Please choose only one answer:

- Light
- Oxygen
- Exercise
- Glucose

Check the answer of this question online at QuizOver.com: Question: Cellular respiration is called an aerobic Michael Sag Chapter 9 Quest

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4.1.6. Which of the following is NOT a product of the Krebs cycle?

Author: Michael Sag

Which of the following is NOT a product of the Krebs cycle?

Please choose only one answer:

- Alcohol
- Carbon Dioxide
- ATP
- FADH2

Check the answer of this question online at QuizOver.com: Question: Which of the following is NOT a product of Michael Sag Chapter 9

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4.1.7. With oxygen present, the Krebs cycle and the electron transport chain

Author: Michael Sag

With oxygen present, the Krebs cycle and the electron transport chain

Please choose only one answer:

- Produce most of the ATP needed for life
- Allow organisms to avoid fermentation
- Break down glucose to produce carbon dioxide, water, and ATP
- All of the Above

Check the answer of this question online at QuizOver.com: Question: With oxygen present the Krebs cycle and the Michael Sag Chapter 9

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4.1.8. In aerobic cellular respiration, the majority of ATP is created dur...

Author: Michael Sag

In aerobic cellular respiration, the majority of ATP is created during:

Please choose only one answer:

- Glycolysis
- lactic acid fermentation
- The Krebs cycle
- The ETC

Check the answer of this question online at QuizOver.com: Question: In aerobic cellular respiration the majority Michael Sag Chapter

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4.1.9. When glycolysis occurs,

Author: Michael Sag

When glycolysis occurs,

Please choose only one answer:

- a molecule of glucose is split
- two molecules of pyretic acid are made
- some ATP is produced
- All of the above

Check the answer of this question online at QuizOver.com: Question: When glycolysis occurs Michael Sag Chapter 9 Quest

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4.1.10. Why does cyanide kill people?

Author: Michael Sag

Why does cyanide kill people?

Please choose only one answer:

- It prevents the ETC from working correctly
- People cannot create NADPh in glycolysis
- It prevents pyretic acid from being created
- None of the above

Check the answer of this question online at QuizOver.com: Question: Why does cyanide kill people Michael Sag Chapter 9 Quest

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4.1.11. Animals breathe in order to take in the carbon dioxide their cells ...

Author: Michael Sag

Animals breathe in order to take in the carbon dioxide their cells need to perform cellular respiration.

Please choose only one answer:

- True
- False

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4.1.12. In eukaryotes, electron transport occurs in the

Author: Michael Sag

In eukaryotes, electron transport occurs in the

Please choose only one answer:

- Cristae
- Nucleus
- Cell Membrane
- Cytoplasm

Check the answer of this question online at QuizOver.com: Question: In eukaryotes electron transport occurs in Michael Sag Chapter 9

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4.1.13. How do organisms get the energy they need?

Author: Michael Sag

How do organisms get the energy they need?

Please choose only one answer:

- by using the sun's energy to break down food molecules and form chemicals
- by breaking down food molecules and converting it into chemical energy
- by breathing oxygen into the lungs and combining it with carbon dioxide
- by burning food molecules and releasing their energy as heat

Check the answer of this question online at QuizOver.com: Question: How do organisms get the energy they need Michael Sag Chapter 9 Quest

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4.1.14. Water is an end product in

Author: Michael Sag

Water is an end product in

Please choose only one answer:

- Lactic acid formation
- Fermentation
- The Krebs Cycle
- The ETC

Check the answer of this question online at QuizOver.com: Question: Water is an end product in Michael Sag Chapter 9 Quest

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4.1.15. ATP

Author: Michael Sag

ATP

Please choose only one answer:

- Is essential for a cell to perform all the tasks necessary for life.
- Contains five phosphate groups
- Is found only in bacteria
- All of the above

Check the answer of this question online at QuizOver.com: Question: ATP Michael Sag Chapter 9 Quest

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Interactive Question: http://www.quizover.com/question/question-atp-michael-sag-chapter-9-quest?pdf=1505 4.1.16. In which ways is cellular respiration similar to photosynthesis?

Author: Michael Sag

In which ways is cellular respiration similar to photosynthesis?

Please choose only one answer:

- They both involve electron carriers
- They both involve ATP
- They both involve glucose
- All of the above

Check the answer of this question online at QuizOver.com: Question: In which ways is cellular respiration similar Michael Chapter 9 Quest

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4.1.17. Which process requires the presence of oxygen to release energy?

Author: Michael Sag

Which process requires the presence of oxygen to release energy?

Please choose only one answer:

- Aerobic Respiration
- Photosynthesis
- Fermentation
- Anaerobic Respiration

Check the answer of this question online at QuizOver.com: Question: Which process requires the presence of oxygen Michael Chapter 9 Quest

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4.1.18. Which of the following is not formed during the Krebs cycle?

Author: Michael Sag

Which of the following is not formed during the Krebs cycle?

Please choose only one answer:

- CO2
- FADH2
- NADH
- NADPH

Check the answer of this question online at QuizOver.com: Question: Which of the following is not formed during Michael Sag Chapter 9

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4.1.19. There are two types of fermentation. During fermentation, either al...

Author: Michael Sag

There are two types of fermentation. During fermentation, either alcohol and canon dioxide is formed, or _____ is formed

Please choose only one answer:

- Lactic Acid
- NADPH
- ATP
- Water

Check the answer of this question online at QuizOver.com: Question: There are two types of fermentation. During Michael Sag Chapter 9

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Author: Michael Sag

A substance PRODUCED during photosynthesis that is used for completion of cellular respiration is:

Please choose only one answer:

- Water
- ATP
- NADPH
- Oxygen

Check the answer of this question online at QuizOver.com: Question: A substance PRODUCED during photosynthesis Michael Sag Chapter 9

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4.1.21. In addition to ATP, what are the end products of glycolysis?

Author: Michael Sag

In addition to ATP, what are the end products of glycolysis?

Please choose only one answer:

- CO2 and H2O
- Co2 and Pyruvate
- NADH and Pyruvate
- CO2 and NADH

Check the answer of this question online at QuizOver.com: Question: In addition to ATP what are the end products Michael Sag Chapter

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4.1.22. When muscles are exercised extensively in the absence of sufficient...

Author: Michael Sag

When muscles are exercised extensively in the absence of sufficient oxygen,

Please choose only one answer:

- A large amount of ATP is formed
- NADH molecules split
- Lactic Acid id produced
- Cellular Respiration ceases

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4.1.23. Glucose is split into pyruvic acid during a reaction called

Author: Michael Sag

Glucose is split into pyruvic acid during a reaction called

Please choose only one answer:

- Glycolysis
- ATP
- NAD+
- Juice

Check the answer of this question online at QuizOver.com: Question: Glucose is split into pyruvic acid during a Michael Sag Chapter 9

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4.1.24. You need energy to think, to keep your heart beating, and to read t...

Author: Michael Sag

You need energy to think, to keep your heart beating, and to read this question. This energy is directly supplied by _____, which is/are produced in the process of cellular respiration.

Please choose only one answer:

- ATP
- Enzymes
- NAD+
- Vitamins

Check the answer of this question online at QuizOver.com: Question: You need energy to think to keep your heart Michael Sag Chapter 9

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4.1.25. The Krebs cycle produces

Author: Michael Sag

The Krebs cycle produces

Please choose only one answer:

- Oxygen
- Lactic Acid
- Carbon Dioxide
- Glucose

Check the answer of this question online at QuizOver.com: Question: The Krebs cycle produces Michael Sag Chapter 9 Quest

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4.1.26. Why is the Krebs cycle so important for cells?

Author: Michael Sag

Why is the Krebs cycle so important for cells?

Please choose only one answer:

- it is where many of the NADH molecules are made that will be used later (correct answer, your response)
- it is where most ATP molecules are made
- it serves to assist in protein synthesis
- it is where glucose is first broken down

Check the answer of this question online at QuizOver.com: Question: Why is the Krebs cycle so important for cells Michael Chapter 9 Quest

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4.1.27. The SPECIFIC location that the Krebs cycle takes place in is the:

Author: Michael Sag

The SPECIFIC location that the Krebs cycle takes place in is the:

Please choose only one answer:

- Matrix
- Mitochondrial Matrix
- Matrix of Mitochondria

Check the answer of this question online at QuizOver.com: Question: The SPECIFIC location that the Krebs cycle Michael Sag Chapter 9

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4.1.28. How many molecules of ATP are produced in glycolysis?

Author: Michael Sag

How many molecules of ATP are produced in glycolysis?

Please choose only one answer:

- 2
- 16
- 8
- 32

Check the answer of this question online at QuizOver.com: Question: How many molecules of ATP are produced in Michael Sag Chapter 9 Quest

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4.1.29. During fermentation,

Author: Michael Sag

During fermentation,

Please choose only one answer:

- NAD+ is regenerated, allowing glycolysis to continue
- Glucose is split into 3 pyretic acid molecules
- Oxygen is required
- CO2 is used

Check the answer of this question online at QuizOver.com: Question: During fermentat Michael Sag Chapter 9 Quest

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4.1.30. Which MOST ACCURATELY describes the difference in ATP production be...

Author: Michael Sag

Which MOST ACCURATELY describes the difference in ATP production between aerobic and anaerobic respiration?

Please choose only one answer:

- Aerobic respiration produces more ATP than anaerobic respiration.
- Anaerobic respiration produces more ATP than aerobic respiration.
- Only anaerobic respiration produces a lot of ATP.
- Anaerobic and anaerobic respiration produce the same amount of ATP.

Check the answer of this question online at QuizOver.com: Question: Which MOST ACCURATELY describes the difference Michael Chapter 9

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4.1.31. Unlike photosynthesis, cellular respiration occurs in

Author: Michael Sag

Unlike photosynthesis, cellular respiration occurs in

Please choose only one answer:

- All eukaryotic cells
- Animal Cells only
- Plant Cells only
- Prokaryotic Cells only

Check the answer of this question online at QuizOver.com: Question: Unlike photosynthesis cellular respiration Michael Sag Chapter 9

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4.1.32. You have been growing some animal cells in culture. The cells grow ...

Author: Michael Sag

You have been growing some animal cells in culture. The cells grow well for several weeks, and then their growth slows down. You conduct some tests and determine that there is a lot of lactic acid in the culture fluid. Which of the following is the most likely explanation for the poor growth of the cells?

Please choose only one answer:

- There is too much glucose in the culture fluid.
- There is not enough glucose in the culture fluid.
- There is too much oxygen in the culture fluid.
- There is not enough oxygen in the culture fluid.

Check the answer of this question online at QuizOver.com: Question: You have been growing some animal cells in Michael Sag Chapter 9

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