

Natural Sciences

Biology 1

Biology #1

Author: Sarah Warren

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4. Chapter: Biology 1

1. Biology 1 Questions

4.1.1. when more water is moving into the cell this is said to be what kin...

Author: Sarah Warren

when more water is moving into the cell this is said to be what kind of situation

Please choose only one answer:

- hypertonic
- hypotonic
- isotonic

Check the answer of this question online at QuizOver.com:

Question: [when more water is moving into the cell this Sarah Warren Exam 1](#)

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4.1.2. atoms that vary in the number of neutrons found in their nuclei are...

Author: Sarah Warren

atoms that vary in the number of neutrons found in their nuclei are called

Please choose only one answer:

- ions
- isotopes
- neutrons
- neutral atoms

Check the answer of this question online at QuizOver.com:

Question: [atoms that vary in the number of neutrons found Sarah Warren Exam](#)

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4.1.3. what is true of an integral membrane protein?

Author: Sarah Warren

what is true of an integral membrane protein?

Please choose only one answer:

- it is found only in organelles
- it is found only one one side of the plasma membrane
- it is found as a "pore" through the membrane with parts found on both sides of the plasma membrane
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [what is true of an integral membrane protein Sarah Warren Exam 1](#)

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4.1.4. which of the following organelles have arisen through the endosymbi...

Author: Sarah Warren

which of the following organelles have arisen through the endosymbiotic theory?

Please choose only one answer:

- chloroplast and nucleus
- nucleus and endoplasmic reticulum
- mitochondria and chloroplast
- mitochondria and peroxisomes

Check the answer of this question online at QuizOver.com:

Question: [which of the following organelles have arisen Sarah Warren Exam 1](#)

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4.1.5. what type of bonds links monomers and carbohydrates?

Author: Sarah Warren

what type of bonds links monomers and carbohydrates?

Please choose only one answer:

- peptide
- phosphodiester
- glycosidic
- hydrogen
- depends on what the monomer is

Check the answer of this question online at QuizOver.com:

Question: [what type of bonds links monomers and carbohydrates Sarah Exam 1](#)

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4.1.6. the carbon atoms in the pentose sugar of a nucleotide in DNA are nu...

Author: Sarah Warren

the carbon atoms in the pentose sugar of a nucleotide in DNA are numbered. which 2 carbons are involved when nucleotides are linked in a DNA or RNA chain?

Please choose only one answer:

- 1' and 3'
- 3' and 5'
- 2' and 4'
- 4' and 6'

Check the answer of this question online at QuizOver.com:

Question: [the carbon atoms in the pentose sugar of a Sarah Warren Exam 1 Quest](#)

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4.1.7. what is a phylogenetic tree?

Author: Sarah Warren

what is a phylogenetic tree?

Please choose only one answer:

- a way to show a hypothesis of evolutionary relatedness between 2 or more organisms
- a way to show how animals evolved from each other
- a way to show that humans evolved from fish
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [what is a phylogenetic tree Sarah Warren Exam 1 Quest](#)

Flashcards:

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4.1.8. where do you find a nitrogenous base?

Author: Sarah Warren

where do you find a nitrogenous base?

Please choose only one answer:

- DNA
- RNA
- Protein
- A and C
- A and B

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [where do you find a nitrogenous base Sarah Warren Exam 1 Quest](http://www.quizover.com/question/question-where-do-you-find-a-nitrogenous-base-sarah-warren-exam-1-ques?pdf=1505)

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4.1.9. Elements are

Author: Sarah Warren

Elements are

Please choose only one answer:

- unique forms of matter with specific chemical and physical properties that cannot be broken down into smaller substances
- any substance that occupies space
- any substance that has mass
- the fundamental level of life
- all of these answers are correct

Check the answer of this question online at QuizOver.com:

Question: [Elements are Sarah Warren Exam 1 Quest](#)

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4.1.10. what are the components of the plasma membrane?

Author: Sarah Warren

what are the components of the plasma membrane?

Please choose only one answer:

- phospholipds
- proteins
- cholesterol
- all of the above
- it depends on the cell

Check the answer of this question online at QuizOver.com:

Question: [what are the components of the plasma membrane Sarah Warren Exam](#)

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4.1.11. cells are isolated islands within an organism

Author: Sarah Warren

cells are isolated islands within an organism

Please choose only one answer:

- true
- false

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Question: [cells are isolated islands within an organism Sarah Warren Exam 1](#)

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4.1.12. the plasma membrane contains receptors that can function in phagocy...

Author: Sarah Warren

the plasma membrane contains receptors that can function in phagocytic processes

Please choose only one answer:

- true
- false

Check the answer of this question online at QuizOver.com:

Question: [the plasma membrane contains receptors that Sarah Warren Exam 1 Quest](#)

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4.1.13. what is the selective advantage of keeping the surface to volume ra...

Author: Sarah Warren

what is the selective advantage of keeping the surface to volume ratio low in a cell?

Please choose only one answer:

- Maximize the relative surface area for cooling
- provide more volume to store more organelles
- maximize the relative surface area to exchange nutrients and gasses
- provide more volume to store more nutrients

Check the answer of this question online at QuizOver.com:

Question: [what is the selective advantage of keeping the Sarah Warren Exam](#)

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4.1.14. the four major groups of organic compounds are

Author: Sarah Warren

the four major groups of organic compounds are

Please choose only one answer:

- Carbohydrates, lipids, proteins, and nucleic acids
- fats, waxes, carbohydrates, and amino acids
- carbohydrates, lipids, steroids, and monosaccharides
- lipids, fats, waxes, and steroids

Check the answer of this question online at QuizOver.com:

Question: [the four major groups of organic compounds are Sarah Warren Exam](#)

Flashcards:

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4.1.15. you preform an experiment in which you take 16 pots of strawberry p...

Author: Sarah Warren

you preform an experiment in which you take 16 pots of strawberry plants and give half of them 1 gm of ammonium nitrate per liter of water and the other half just water. each group is then split in half again, and exposed to either eight or 16 hours of light each day. You monitor the height of the plants for four weeks. You observe that increasing ammonium nitrate and light both increases plant height. Which of the following are independent variables in this experiment?

Please choose only one answer:

- the amount of ammonium nitrate
- the amount of ammonium nitrate and light
- the amount of light
- the height of the plants and the amount of light
- the height of the plants

Check the answer of this question online at QuizOver.com:

Question: [you preform an experiment in which you take 1 Sarah Warren Exam 1](#)

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4.1.16. you are a scientist interested in examining the mitochondria of a c...

Author: Sarah Warren

you are a scientist interested in examining the mitochondria of a cell. what type of microscope would you use to look at this structure?

Please choose only one answer:

- Light microscope
- transmission electron microscope
- compound microscope
- scanning electron microscope

Check the answer of this question online at QuizOver.com:

Question: [you are a scientist interested in examining Sarah Warren Exam 1 Quest](#)

Flashcards:

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4.1.17. if an atom has a valence shell that is full it

Author: Sarah Warren

if an atom has a valence shell that is full it

Please choose only one answer:

- is highly reactive
- it is not chemically stable
- it is chemically stable
- is highly likely to combine with other atoms
- is not inert

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [if an atom has a valence shell that is full Sarah Warren Exam 1 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-an-atom-has-a-valence-shell-that-is-full-sarah-warren-exam?pdf=1505>

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4.1.18. what biological molecule has both hydrophobic and hydrophilic properties...

Author: Sarah Warren

what biological molecule has both hydrophobic and hydrophilic properties?

Please choose only one answer:

- lipids
- waxes
- phospholipids
- DNA
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [what biological molecule has both hydrophobic Sarah Warren Exam 1](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-biological-molecule-has-both-hydrophobic-sarah-warren-ex?pdf=1505>

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4.1.19. which of the following will not alter protein folding?

Author: Sarah Warren

which of the following will not alter protein folding?

Please choose only one answer:

- pH
- temperature
- the primary structure
- all of the above-none of them change/influence the protein folding
- none of the above-they all change/influence the protein folding

Check the answer of this question online at QuizOver.com:

Question: [which of the following will not alter protein Sarah Warren Exam 1](#)

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4.1.20. how many different types of amino acids are there

Author: Sarah Warren

how many different types of amino acids are there

Please choose only one answer:

- 15
- 20
- 25
- 30

Check the answer of this question online at QuizOver.com:

Question: [how many different types of amino acids are Sarah Warren Exam 1 Quest](#)

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4.1.21. an acid

Author: Sarah Warren

an acid

Please choose only one answer:

- has a value above seven on the pH scale
- is a chemical that takes hydrogen ions from a solution
- has a value of seven on the pH scale
- is a chemical that adds hydrogen ions to a solution
- All are correct

Check the answer of this question online at QuizOver.com:

Question: [an acid Sarah Warren Exam 1 Quest](#)

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4.1.22. the bond between adjacent amino acids in a protein is a (blank) bond

Author: Sarah Warren

the bond between adjacent amino acids in a protein is a (blank) bond

Please choose only one answer:

- ionic
- peptide
- hydrogen
- energy rich

Check the answer of this question online at QuizOver.com:

Question: [the bond between adjacent amino acids in a Sarah Warren Exam 1 Quest](#)

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4.1.23. what is not a required characteristic of life

Author: Sarah Warren

what is not a required characteristic of life

Please choose only one answer:

- structural organization
- evolution
- homeostasis
- movement
- energy use

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [what is not a required characteristic of life Sarah Warren Exam 1](#)

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4.1.24. what distinguishes a eukaryote from a prokaryote? in other words, w...

Author: Sarah Warren

what distinguishes a eukaryote from a prokaryote? in other words, what do eukaryotes have?

Choose best answer

Please choose only one answer:

- the presence of membrane bound organelles
- the presence of a nucleus
- the presence of ribosomes
- the presence of plasma membrane
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [what distinguishes a eukaryote from a prokaryote Sarah Exam 1 Quest](#)

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4.1.25. the movement of water across a membrane is an example of

Author: Sarah Warren

the movement of water across a membrane is an example of

Please choose only one answer:

- simple passive diffusion
- facilitated passive diffusion
- active diffusion
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [the movement of water across a membrane is an Sarah Warren Exam 1](#)

Flashcards:

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4.1.26. choose the organelle that is correctly matched with its function

Author: Sarah Warren

choose the organelle that is correctly matched with its function

Please choose only one answer:

- rough endoplasmic reticulum- -protein modification post translation
- mitochondria- protein production
- nucleus-protein synthesis
- golgi apparatus- DNA storage
- none of the above

Check the answer of this question online at QuizOver.com:

Question: [choose the organelle that is correctly matched Sarah Warren Exam](#)

Flashcards:

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Interactive Question:

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4.1.27. what is the correct sequence of some of the steps in the scientific...

Author: Sarah Warren

what is the correct sequence of some of the steps in the scientific method?

Please choose only one answer:

- Observation, form hypothesis, design an experiment, collect data
- observation, form hypothesis, draw conclusion, design experiment
- observation, draw a conclusion, design an experiment, form hypothesis
- form hypothesis, observation, design an experiment, collect data

Check the answer of this question online at QuizOver.com:

Question: [what is the correct sequence of some of the Sarah Warren Exam 1 Quest](#)

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4.1.28. an example of basic science would be

Author: Sarah Warren

an example of basic science would be

Please choose only one answer:

- studying the progression of cancer through a patient
- studying the application of a chemical as use for treatment of genetic disorder
- studying the mechanism of how an enzyme works
- all of the above
- none of the above

Check the answer of this question online at QuizOver.com:

Question: [an example of basic science would be Sarah Warren Exam 1 Quest](#)

Flashcards:

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Interactive Question:

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4.1.29. what are the components of the cytoskeleton?

Author: Sarah Warren

what are the components of the cytoskeleton?

Please choose only one answer:

- microfilaments, filaments, and actin
- microfilaments, tubulin, and intermediate filaments
- microfilaments, intermediate filaments, and microtubules
- none of the above

Check the answer of this question online at QuizOver.com:

Question: [what are the components of the cytoskele Sarah Warren Exam 1 Quest](#)

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4.1.30. biology is

Author: Sarah Warren

biology is

Please choose only one answer:

- the study of life
- study of only molecules
- study of only the interaction of living and non-living components
- all of the above

Check the answer of this question online at QuizOver.com:

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4.1.31. what type of reaction is involved in the synthesis of monomers to m...

Author: Sarah Warren

what type of reaction is involved in the synthesis of monomers to make polymers?

Please choose only one answer:

- hydrolysis
- dehydration
- ionic
- none of the above
- depends on what the monomer is

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [what type of reaction is involved in the Sarah Warren Exam 1 Quest](#)

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4.1.32. what is pinocytosis?

Author: Sarah Warren

what is pinocytosis?

Please choose only one answer:

- the movement of large particles into the cell
- the movement of large particles out of the cell
- the movement of relatively large fluid amounts into the cell
- all of the above
- none of the above

Check the answer of this question online at QuizOver.com:

Question: [what is pinocytosis Sarah Warren Exam 1 Quest](#)

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4.1.33. why is a hydrogen bond found between the two strands of DNA?

Author: Sarah Warren

why is a hydrogen bond found between the two strands of DNA?

Please choose only one answer:

- because it is a very strong bond and DNA has to be held together
- because it is a a very weak bond and DNA has to be flexible to allow for DNA interaction with DNA binding proteins
- Because it is a bond of intermediate strength which is necessary to provide stability
- hydrogen bonds are not found between the strands of DNA they are found between monomers of DNA

Check the answer of this question online at QuizOver.com:

Question: [why is a hydrogen bond found between the two Sarah Warren Exam 1](#)

Flashcards:

<http://www.quizover.com/flashcards/question-why-is-a-hydrogen-bond-found-between-the-two-sarah-warren-exa?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-why-is-a-hydrogen-bond-found-between-the-two-sarah-warren-exa?pdf=1505>

4.1.34. the process of (blank) helps to ensure that a scientist's research ...

Author: Sarah Warren

the process of (blank) helps to ensure that a scientist's research is original, significant, logical, and thorough

Please choose only one answer:

- publication
- public speaking
- scientific method
- peer review

Check the answer of this question online at QuizOver.com:

Question: [the process of blank helps to ensure that a Sarah Warren Exam 1 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-process-of-blank-helps-to-ensure-that-a-sarah-warren-exam?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-process-of-blank-helps-to-ensure-that-a-sarah-warren-exam?pdf=1505>

4.1.35. passive diffusion

Author: Sarah Warren

passive diffusion

Please choose only one answer:

- works against a concentration gradient
- works with/along a concentration gradient
- requires energy to move particles
- does not require energy to move particles
- A and D

Check the answer of this question online at QuizOver.com:

Question: [passive diffus Sarah Warren Exam 1 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-passive-diffus-sarah-warren-exam-1-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-passive-diffus-sarah-warren-exam-1-quest?pdf=1505>

4.1.36. which is the proper definition of protein folding?

Author: Sarah Warren

which is the proper definition of protein folding?

Please choose only one answer:

- alpha helix that is parallel
- alpha helical double stranded and anti-parallel
- alpha-helical single stranded parallel
- all of the above, it depends on if the DNA came from a prokaryotic or eukaryotic organism

Check the answer of this question online at QuizOver.com:

Question: [which is the proper definition of protein Sarah Warren Exam 1 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-is-the-proper-definition-of-protein-sarah-warren-exam-1?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-is-the-proper-definition-of-protein-sarah-warren-exam-1?pdf=1505>

4.1.37. A suggested and testable explanation for an event is called

Author: Sarah Warren

A suggested and testable explanation for an event is called

Please choose only one answer:

- theory
- control
- hypotheses
- variable

Check the answer of this question online at QuizOver.com:

Question: [A suggested and testable explanation for an Sarah Warren Exam 1 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-suggested-and-testable-explanation-for-an-sarah-warren-exam?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-suggested-and-testable-explanation-for-an-sarah-warren-exam?pdf=1505>

4.1.38. which of the following components are not present in prokaryotic ce...

Author: Sarah Warren

which of the following components are not present in prokaryotic cells?

Please choose only one answer:

- ribosomes
- nucleoid
- Plasma membrane
- DNA
- nucleus

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [which of the following components are not Sarah Warren Exam 1 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-components-are-not-sarah-warren-exam-1?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-components-are-not-sarah-warren-exam-1?pdf=1505>

4.1.39. what is the building block of proteins?

Author: Sarah Warren

what is the building block of proteins?

Please choose only one answer:

- R groups
- nucleic acids
- bases
- amino acids
- ribosomes

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [what is the building block of proteins Sarah Warren Exam 1 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-the-building-block-of-proteins-sarah-warren-exam-1-qu?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-the-building-block-of-proteins-sarah-warren-exam-1-qu?pdf=1505>

4.1.40. which is the correct sequence for levels of biological organization...

Author: Sarah Warren

which is the correct sequence for levels of biological organization occurring beyond the individual

Please choose only one answer:

- population, ecosystem, community, biosphere
- population, community, ecosystem, biosphere
- community, population, ecosystem, biospher
- ecosystem, population, biosphere, community

Check the answer of this question online at QuizOver.com:

Question: [which is the correct sequence for levels of Sarah Warren Exam 1 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-is-the-correct-sequence-for-levels-of-sarah-warren-exam?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-is-the-correct-sequence-for-levels-of-sarah-warren-exam?pdf=1505>

4.1.41. which of the following properties of water are not important to life

Author: Sarah Warren

which of the following properties of water are not important to life

Please choose only one answer:

- it is a relatively universal solvent
- it is a heat sink
- it has cohesive properties
- frozen water floats
- none of the above, they are all important

Check the answer of this question online at QuizOver.com:

Question: [which of the following properties of water are Sarah Warren Exam](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-properties-of-water-are-sarah-warren-e?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-properties-of-water-are-sarah-warren-e?pdf=1505>

4.1.42. what type of bonding occurs between the nucleotides on the two anti...

Author: Sarah Warren

what type of bonding occurs between the nucleotides on the two antiparallel chains of nucleotides in a DNA molecule

Please choose only one answer:

- ionic
- covalent
- peptide
- hydrogen
- none of these answers are correct

Check the answer of this question online at QuizOver.com:

Question: [what type of bonding occurs between the Sarah Warren Exam 1 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-type-of-bonding-occurs-between-the-sarah-warren-exam-1-q?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-type-of-bonding-occurs-between-the-sarah-warren-exam-1-q?pdf=1505>