

Natural Biology

Microbiology

Final 1

Microbiology #1

Author: Madison Christian

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4. Chapter: Microbiology Final 1

1. Microbiology Final 1 Questions

4.1.1. Bacteria are good models to use because they

Author: Madison Christian

Bacteria are good models to use because they

Please choose only one answer:

- are large in size.
- share many biochemical/physiological properties with more complicated organisms.
- can be assembled into multicellular organisms.
- have complicated growth requirements.

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

Question: [Bacteria are good models to use because Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-bacteria-are-good-models-to-use-because-madison-christian-mic?pdf=1505>

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4.1.2. Cellulose is a major component of plants and is only directly diges...

Author: Madison Christian

Cellulose is a major component of plants and is only directly digested by

Please choose only one answer:

- herbivores
- carnivores.
- termites.
- microorganisms.

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

Question: [Cellulose is a major component of plants Madison Christian Micro](#)

Flashcards:

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4.1.3. Cellulose is a major component of plants and is only directly diges...

Author: Madison Christian

Cellulose is a major component of plants and is only directly digested by

Please choose only one answer:

- herbivores
- carnivores.
- termites.
- microorganisms.

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

Question: [Cellulose is a major component of plants Madison Christian Micro](#)

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4.1.4. Although it is said that the twentieth century was the Age of Physi...

Author: Madison Christian

Although it is said that the twentieth century was the Age of Physics, it is predicted that the twenty-first century will be the age of

Please choose only one answer:

- chemistry.
- computers.
- microbial biodiversity.
- mathematics.

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

Question: [Although it is said that the twentieth Madison Christian Micro Quest](#)

Flashcards:

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4.1.5. Which is usually true of Archaea?

Author: Madison Christian

Which is usually true of Archaea?

Please choose only one answer:

- They are found as rods, spheres, or spirals.
- They reproduce by binary fission.
- They contain rigid cell walls.
- They are found as single cells.
- All of the choices are correct.

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

Question: [Which is usually true of Archaea Madison Christian Micro Final Quest](#)

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4.1.6. Organisms

Author: Madison Christian

Organisms

Please choose only one answer:

- may be classified in four domains.
- may be classified in three domains.
- probably do not have a common ancestor.
- have never shared genes between domains.
- may be classified in three domains, probably do not have a common ancestor AND have never shared genes between domains.

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

Question: [Organisms Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-organisms-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

Interactive Question:

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4.1.7. The system by which organisms are named is referred to as

Author: Madison Christian

The system by which organisms are named is referred to as

Please choose only one answer:

- systematics.
- naming.
- nomenclature.
- cladistics.

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

Question: [The system by which organisms are named Madison Christian Micro Quest](#)

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<http://www.quizover.com/flashcards/question-the-system-by-which-organisms-are-named-madison-christian-mic?pdf=1505>

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<http://www.quizover.com/question/question-the-system-by-which-organisms-are-named-madison-christian-mic?pdf=1505>

4.1.8. Which of these may pertain to the term strain?

Author: Madison Christian

Which of these may pertain to the term strain?

Please choose only one answer:

- coli 0157:H7
- coli
- minor variation of a species
- major variation of a species
- coli 0157:H7 AND minor variation of a species

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

Question: [Which of these may pertain to the term Madison Christian Micro Quest](#)

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4.1.9. Viruses may only be grown

Author: Madison Christian

Viruses may only be grown

Please choose only one answer:

- in sterile, cell-free chemical growth media.
- in living cells.
- at body temperature.
- in darkness.

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

Question: [Viruses may only be grown Madison Christian Micro Final Practice](#)

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4.1.10. The prokaryotic cell scheme is found in

Author: Madison Christian

The prokaryotic cell scheme is found in

Please choose only one answer:

- Bacteria.
- Archaea.
- Eucarya.
- All of the choices are correct.
- Bacteria AND Archaea.

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

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4.1.11. The prokaryotic cell scheme is found in

Author: Madison Christian

The prokaryotic cell scheme is found in

Please choose only one answer:

- Bacteria.
- Archaea.
- Eucarya.
- All of the choices are correct.
- Bacteria AND Archaea.

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

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4.1.12. Bioremediation refers to

Author: Madison Christian

Bioremediation refers to

Please choose only one answer:

- rehabilitating wayward bacteria.
- using bacteria to clean up pollutants.
- vaccine development.
- monitoring newly discovered disease organisms.

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

Question: [Bioremediation refers to Madison Christian Micro Final Practice 1](#)

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4.1.13. The scientific name of an organism includes its

Author: Madison Christian

The scientific name of an organism includes its

Please choose only one answer:

- family and genus.
- first name and last name.
- genus and species.
- domain.
- genus and species AND domain.

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

Question: [The scientific name of an organism includes Madison Micro Final Quest](#)

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4.1.14. Smallpox

Author: Madison Christian

Smallpox

Please choose only one answer:

- aided European domination of New World Nations.
- has not occurred naturally anywhere in the world since 1977.
- has potential as a weapon of bioterrorism.
- has killed millions of people.
- All of the choices are correct.

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

Question: [Smallpox Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-smallpox-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-smallpox-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

4.1.15. The word "Animalcule" was coined by

Author: Madison Christian

The word "Animalcule" was coined by

Please choose only one answer:

- Pasteur.
- van Leeuwenhoek.
- Redi.
- Tyndall.

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

Question: [The word Animalcule was coined by Madison Christian Micro Final Quest](#)

Flashcards:

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Interactive Question:

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4.1.16. Smallpox

Author: Madison Christian

Smallpox

Please choose only one answer:

- has been eliminated as a naturally occurring infection in human beings.
- still occasionally occurs in Third World Countries.
- probably only had a human reservoir.
- was dealt with by vaccination.
- has been eliminated as a naturally occurring infection in human beings, AND was dealt with by vaccination.

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

Question: [Smallpox Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

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Interactive Question:

<http://www.quizover.com/question/question-smallpox-madison-christian-micro-final-practice-1-ken-9437501?pdf=1505>

4.1.17. The smallest organism is probably determined by

Author: Madison Christian

The smallest organism is probably determined by

Please choose only one answer:

- the number of molecules necessary for its growth and replication.
- the size of the molecules necessary for its growth and replication.
- its membrane.
- its volume.
- the number of molecules necessary for its growth and replication AND the size of the molecules necessary for its growth and replication.

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

Question: [The smallest organism is probably determined Madison Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-smallest-organism-is-probably-determined-madison-micro-fi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-smallest-organism-is-probably-determined-madison-micro-fi?pdf=1505>

4.1.18. HIV/AIDS can be categorized as a new or emerging infectious disease...

Author: Madison Christian

HIV/AIDS can be categorized as a new or emerging infectious disease. By putting it into this category, we are effectively saying that

Please choose only one answer:

- this infection hasn't been observed in the human population prior to recent (approximately 50 years or sooner) outbreaks.
- this disease has been in susceptible populations for centuries, but has only recently achieved infection levels that became detectable.
- the infectious agent is still evolving and changing, unlike with older, more established diseases such as plague or polio.
- the disease has always been in susceptible populations and causing disease, but we lacked the technology to detect it.

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

Question: [HIV/AIDS can be categorized as a new or Madison Christian Micro Quest](#)

Flashcards:

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Interactive Question:

<http://www.quizover.com/question/question-hiv-aids-can-be-categorized-as-a-new-or-madison-christian-mic?pdf=1505>

4.1.19. Viruses

Author: Madison Christian

Viruses

Please choose only one answer:

- are obligate intracellular parasites.
- are single-celled organisms.
- consist of only proteins.
- are in the Domain Archaea.
- are obligate intracellular parasites AND are single-celled organisms.

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

Question: [Viruses Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-viruses-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

Interactive Question:

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4.1.20. Which is not usually true of Archaea?

Author: Madison Christian

Which is not usually true of Archaea?

Please choose only one answer:

- They are found as rods, spheres, or spirals.
- They reproduce by binary fission.
- They contain rigid cell walls.
- They are found as single cells.
- They contain peptidoglycan as part of their cell walls.

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

Question: [Which is not usually true of Archaea Madison Christian Micro Final](#)

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4.1.21. Prions

Author: Madison Christian

Prions

Please choose only one answer:

- are only composed of RNA.
- are only composed of DNA.
- are only composed of protein.
- cause diseases in plants.
- are only composed of RNA AND cause diseases in plants.

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

Question: [Prions Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

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4.1.22. Viruses, viroids and prions all

Author: Madison Christian

Viruses, viroids and prions all

Please choose only one answer:

- operate intracellularly.
- may be considered acellular agents of disease.
- contain DNA.
- infect only animals.
- operate intracellularly AND may be considered acellular agents of disease.

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

Question: [Viruses viroids and prions all Madison Christian Micro Final](#)

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4.1.23. The idea of Spontaneous Generation postulated that

Author: Madison Christian

The idea of Spontaneous Generation postulated that

Please choose only one answer:

- organisms could evolve into the next generation of organisms.
- organisms could spontaneously combust.
- organisms could spontaneously arise from other living organisms.
- living organisms could spontaneously arise from non-living material.

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

Question: [The idea of Spontaneous Generation postulated Madison Micro Final](#)

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<http://www.quizover.com/flashcards/question-the-idea-of-spontaneous-generation-postulated-madison-micro-f?pdf=1505>

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4.1.24. The outbreak of measles within the last few years was due to

Author: Madison Christian

The outbreak of measles within the last few years was due to

Please choose only one answer:

- mutation of the virus.
- change in the environment.
- a decline in vaccination of children in the previous years.
- increase in sensitivity of detection techniques.

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

Question: [The outbreak of measles within the last Madison Christian Micro Quest](#)

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4.1.25. The opposite results obtained by scientists apparently doing the sa...

Author: Madison Christian

The opposite results obtained by scientists apparently doing the same experiments in investigating spontaneous generation

Please choose only one answer:

- shows the importance of repeating experiments.
- shows the importance of exactly duplicating experimental conditions.
- led to further experiments that ultimately furthered knowledge.
- All of the choices are correct.

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

Question: [The opposite results obtained by scientists Madison Micro Final Quest](#)

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4.1.26. Why are we concerned at all with monitoring emerging/reemerging dis...

Author: Madison Christian

Why are we concerned at all with monitoring emerging/reemerging diseases?

Please choose only one answer:

- These represent growing threats to human health that will require new scientific research and resources to effectively combat.
- Because globalization (greater trade and travel between countries) leads to more chances for spread of illnesses into new areas and populations. Monitoring these illnesses will help us to protect people.
- Because the speed of travel has increased greatly. With increased speed of travel, it is far more likely that a serious pathogenic threat from one area of the world can spread rapidly across the globe in a very fast manner. We need to monitor the occurrence of these illnesses to try to protect populations
- All of the above.

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

Question: [Why are we concerned at all with monitoring Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-why-are-we-concerned-at-all-with-monitoring-madison-micro-fin?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-why-are-we-concerned-at-all-with-monitoring-madison-micro-fin?pdf=1505>

4.1.27. A protein

Author: Madison Christian

A protein

Please choose only one answer:

- assumes any number of equally functional shapes.
- may need help, in the form of chaperones, to assume the correct shape.
- consists of a string of hydroxyl acids.
- is always polar.
- assumes any number of equally functional shapes AND may need help, in the form of chaperones, to assume the correct shape.

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

Question: [A protein Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-protein-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

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4.1.28. A protein

Author: Madison Christian

A protein

Please choose only one answer:

- assumes any number of equally functional shapes.
- may need help, in the form of chaperones, to assume the correct shape.
- consists of a string of hydroxyl acids.
- is always polar.
- assumes any number of equally functional shapes AND may need help, in the form of chaperones, to assume the correct shape.

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

Question: [A protein Madison Christian Micro Final Practice 1 - Ken Quest](#)

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4.1.29. The negatively charged component of the atom is the

Author: Madison Christian

The negatively charged component of the atom is the

Please choose only one answer:

- proton.
- nucleus.
- neutron.
- electron.

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

Question: [The negatively charged component of the Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-negatively-charged-component-of-the-madison-christian-mic?pdf=1505>

Interactive Question:

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4.1.30. The N terminal in a protein

Author: Madison Christian

The N terminal in a protein

Please choose only one answer:

- is the end characterized by a free carboxyl group.
- is the end characterized by a free amino group.
- is typically found in the middle of a protein.
- refers to that area of a protein that is bound to another protein.

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

Question: [The N terminal in a protein Madison Christian Micro Final Practice](#)

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4.1.31. D-amino acids are associated with

Author: Madison Christian

D-amino acids are associated with

Please choose only one answer:

- radioactive isotopes.
- human proteins.
- plant proteins.
- bacterial cell walls.

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

Question: [D-amino acids are associated Madison Christian Micro Final Practice](#)

Flashcards:

<http://www.quizover.com/flashcards/question-d-amino-acids-are-associated-madison-christian-micro-final-pr?pdf=1505>

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4.1.32. The positively charged component of the atom is the

Author: Madison Christian

The positively charged component of the atom is the

Please choose only one answer:

- electron.
- neutron.
- proton
- quark.

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

Question: [The positively charged component of the Madison Christian Micro Quest](#)

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4.1.33. Electrons

Author: Madison Christian

Electrons

Please choose only one answer:

- are found in areas outside the nucleus known as orbitals.
- may gain or lose energy.
- may move from one orbital to another.
- are located farthest from the nucleus and have the least energy.
- are found in areas outside the nucleus known as orbitals, may gain or lose energy, and may move from one orbital to another.

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

Question: [Electrons Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-electrons-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-electrons-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

4.1.34. Charged atoms are termed

Author: Madison Christian

Charged atoms are termed

Please choose only one answer:

- ions.
- neutrons.
- molecules.
- polymers.

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

Question: [Charged atoms are termed Madison Christian Micro Final Practice 1](#)

Flashcards:

<http://www.quizover.com/flashcards/question-charged-atoms-are-termed-madison-christian-micro-final-practi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-charged-atoms-are-termed-madison-christian-micro-final-practi?pdf=1505>

4.1.35. Which is true of carbohydrates?

Author: Madison Christian

Which is true of carbohydrates?

Please choose only one answer:

- They may be part of the structure of bacteria.
- They may serve as a source of food
- They contain carbon, hydrogen and oxygen in a 1:2:1 ratio
- They may be bonded to proteins to form glycoproteins.
- All of the choices are correct.

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

Question: [Which is true of carbohydrates Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-is-true-of-carbohydrates-madison-christian-micro-final?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-is-true-of-carbohydrates-madison-christian-micro-final?pdf=1505>

4.1.36. Atoms that gain electrons are now

Author: Madison Christian

Atoms that gain electrons are now

Please choose only one answer:

- positively charged.
- negatively charged.
- neutral.
- lighter.

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

Question: [Atoms that gain electrons are now Madison Christian Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-atoms-that-gain-electrons-are-now-madison-christian-micro-fin?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-atoms-that-gain-electrons-are-now-madison-christian-micro-fin?pdf=1505>

4.1.37. Protein denaturation can

Author: Madison Christian

Protein denaturation can

Please choose only one answer:

- occur due to certain chemicals.
- occur due to pH changes
- occur due to high temperature.
- cause the protein to no longer function.
- All of the choices are correct.

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

Question: [Protein denaturation can Madison Christian Micro Final Practice 1](#)

Flashcards:

<http://www.quizover.com/flashcards/question-protein-denaturation-can-madison-christian-micro-final-practi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-protein-denaturation-can-madison-christian-micro-final-practi?pdf=1505>

4.1.38. Which is true of nucleotides?

Author: Madison Christian

Which is true of nucleotides?

Please choose only one answer:

- They are the building blocks of DNA.
- They carry chemical energy in their bonds.
- They are part of certain enzymes.
- They serve as specific signaling molecules.
- All of the choices are true.

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

Question: [Which is true of nucleotides Madison Christian Micro Final Practice](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-is-true-of-nucleotides-madison-christian-micro-final-pr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-is-true-of-nucleotides-madison-christian-micro-final-pr?pdf=1505>

4.1.39. The atom, as a whole, is uncharged because

Author: Madison Christian

The atom, as a whole, is uncharged because

Please choose only one answer:

- the number of protons equals the number of neutrons
- the number of electrons equals the number of neutrons.
- neutrons neutralize the charges.
- the number of protons equals the number of electrons

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

Question: [The atom as a whole is uncharged because Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-atom-as-a-whole-is-uncharged-because-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-atom-as-a-whole-is-uncharged-because-madison-christian-mi?pdf=1505>

4.1.40. Side chains are important to proteins because they

Author: Madison Christian

Side chains are important to proteins because they

Please choose only one answer:

- help determine protein shape.
- help determine the degree of solubility of the protein in water.
- are a source of energy for hydration reactions in the cell.
- form the peptide bonds which link amino acids to one another.
- help determine protein shape AND help determine the degree of solubility of the protein in water.

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

Question: [Side chains are important to proteins Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-side-chains-are-important-to-proteins-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-side-chains-are-important-to-proteins-madison-christian-micro?pdf=1505>

4.1.41. Which is(are) true of lipids?

Author: Madison Christian

Which is(are) true of lipids?

Please choose only one answer:

- They are a major structural element of all cell membranes.
- They act as gatekeepers of the cell.
- They demark the inside vs. the outside of the cell.
- They are a heterogeneous group of molecules
- All of the choices are correct.

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

Question: [Which is are true of lipids Madison Christian Micro Final Practice](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-is-are-true-of-lipids-madison-christian-micro-final-pra?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-is-are-true-of-lipids-madison-christian-micro-final-pra?pdf=1505>

4.1.42. Water

Author: Madison Christian

Water

Please choose only one answer:

- is a polar molecule.
- is referred to as a universal solvent.
- makes up over 70% (by wt.) of an organism.
- is often a product or reactant in chemical reactions.
- All of the choices are correct.

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

Question: [Water Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-water-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-water-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

4.1.43. If the side chains of amino acids contain the ammonium ion, they re...

Author: Madison Christian

If the side chains of amino acids contain the ammonium ion, they readily form ions that

Please choose only one answer:

- are described as acidic amino acids.
- give positive electric charges to the amino acid.
- are described as basic amino acids.
- react with lipids to form lipoproteins.
- give positive electric charges to the amino acid AND are described as basic amino acids.

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

Question: [If the side chains of amino acids contain Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-the-side-chains-of-amino-acids-contain-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-the-side-chains-of-amino-acids-contain-madison-christian-m?pdf=1505>

4.1.44. The components of fats are fatty acids and

Author: Madison Christian

The components of fats are fatty acids and

Please choose only one answer:

- amino acids.
- nucleotides.
- phosphate.
- glycerol.
- All of the choices are correct.

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

Question: [The components of fats are fatty acids Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-components-of-fats-are-fatty-acids-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-components-of-fats-are-fatty-acids-madison-christian-micr?pdf=1505>

4.1.45. The energy storage form of ATP

Author: Madison Christian

The energy storage form of ATP

Please choose only one answer:

- contains deoxyribose.
- contains ribose
- contains a pyrimidine base.
- readily releases energy by breaking the bond between the base and the sugar.
- contains deoxyribose, contains a pyrimidine base AND readily releases energy by breaking the bond between the base and the sugar.

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

Question: [The energy storage form of ATP Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-energy-storage-form-of-atp-madison-christian-micro-final?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-energy-storage-form-of-atp-madison-christian-micro-final?pdf=1505>

4.1.46. The atomic number for an atom of a specific element is equal to

Author: Madison Christian

The atomic number for an atom of a specific element is equal to

Please choose only one answer:

- the number of electrons in a single atom of that element.
- the number of electrons plus neutrons in a single atom of that element.
- the number of protons in a single atom of that element.
- the number of neutrons and protons in a single atom of that element.

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

Question: [The atomic number for an atom of a specific Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-atomic-number-for-an-atom-of-a-specific-madison-micro-fin?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-atomic-number-for-an-atom-of-a-specific-madison-micro-fin?pdf=1505>

4.1.47. Amino acids in proteins are linked to one another by peptide bonds ...

Author: Madison Christian

Amino acids in proteins are linked to one another by peptide bonds between the

Please choose only one answer:

- methyl group of one amino acid and a side group of another amino acid.
- carbon atoms of two adjacent amino acids.
- carboxyl group of one amino acid and the amino group of another.
- nitrogen atom and carboxyl ion.

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

Question: [Amino acids in proteins are linked to one Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-amino-acids-in-proteins-are-linked-to-one-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-amino-acids-in-proteins-are-linked-to-one-madison-christian-m?pdf=1505>

4.1.48. Proteins

Author: Madison Christian

Proteins

Please choose only one answer:

- are involved in almost every important function performed by a cell.
- comprise more than 50% of the dry weight of a cell.
- are composed of a string of nucleotides.
- are characterized by a 1:2:1 ratio of carbon to hydrogen to oxygen.
- are involved in almost every important function performed by a cell AND comprise more than 50% of the dry weight of a cell.

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

Question: [Proteins Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-proteins-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-proteins-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

4.1.49. Which of the following microscope types would be least useful in vi...

Author: Madison Christian

Which of the following microscope types would be least useful in viewing unstained living cells?

Please choose only one answer:

- phase contrast
- interference
- bright-field
- dark-field

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

Question: [Which of the following microscope types Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-microscope-types-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-microscope-types-madison-christian-mic?pdf=1505>

4.1.50. In viewing a microscopic specimen, oil is used to

Author: Madison Christian

In viewing a microscopic specimen, oil is used to

Please choose only one answer:

- increase the refraction.
- decrease the refraction.
- increase the reflection.
- increase the resolution.
- decrease the refraction AND increase the resolution.

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

Question: [In viewing a microscopic specimen oil is Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-viewing-a-microscopic-specimen-oil-is-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-viewing-a-microscopic-specimen-oil-is-madison-christian-mi?pdf=1505>

4.1.51. Which of the following stains is/are considered differential?

Author: Madison Christian

Which of the following stains is/are considered differential?

Please choose only one answer:

- capsule stain.
- flagella stain.
- acid-fast stain.
- Gram stain.
- acid-fast stain AND Gram stain.

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

Question: [Which of the following stains is/are Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-stains-is-are-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-stains-is-are-madison-christian-micro?pdf=1505>

4.1.52. If everything else is equal, the best way to observe more details i...

Author: Madison Christian

If everything else is equal, the best way to observe more details in a microscopic specimen is to

Please choose only one answer:

- increase resolution.
- increase magnification.

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

Question: [If everything else is equal the best way Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-everything-else-is-equal-the-best-way-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-everything-else-is-equal-the-best-way-madison-christian-mi?pdf=1505>

4.1.53. The cell wall of Gram-positive bacteria

Author: Madison Christian

The cell wall of Gram-positive bacteria

Please choose only one answer:

- contains a thin layer of peptidoglycan.
- contains a thick layer of peptidoglycan.
- is, due to its thickness, an excellent barrier to most molecules.
- contains an outer membrane containing LPS
- contains a thin layer of peptidoglycan AND contains an outer membrane containing LPS.

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

Question: [The cell wall of Gram-positive bacteria Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-cell-wall-of-gram-positive-bacteria-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-cell-wall-of-gram-positive-bacteria-madison-christian-mic?pdf=1505>

4.1.54. The endospore stain

Author: Madison Christian

The endospore stain

Please choose only one answer:

- is applicable to only a few groups of bacteria.
- usually shows the spores as green structures among a background of pink cells.
- uses crystal violet as the primary stain.
- is an example of a negative stain.
- is applicable to only a few groups of bacteria AND usually shows the spores as green structures among a background of pink cells.

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

Question: [The endospore stain Madison Christian Micro Final Practice 1 - Ken](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-endospore-stain-madison-christian-micro-final-practice-1?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-endospore-stain-madison-christian-micro-final-practice-1?pdf=1505>

4.1.55. Extrachromosomal DNA is found in _____.

Author: Madison Christian

Extrachromosomal DNA is found in _____.

Please choose only one answer:

- mitochondria
- plasmids
- nucleoid
- nucleoli
- mitochondria AND plasmids

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

Question: [Extrachromosomal DNA is found in . Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-extrachromosomal-dna-is-found-in-madison-christian-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-extrachromosomal-dna-is-found-in-madison-christian-micro-fina?pdf=1505>

4.1.56. Electron microscopes differ from light microscopes in that

Author: Madison Christian

Electron microscopes differ from light microscopes in that

Please choose only one answer:

- electrons replace light.
- electromagnets replace glass lenses.
- resolution is higher.
- magnification is higher
- All of the choices are correct.

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

Question: [Electron microscopes differ from light Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-electron-microscopes-differ-from-light-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-electron-microscopes-differ-from-light-madison-christian-micr?pdf=1505>

4.1.57. The microscope which allows the specimen to appear 3-dimensional is...

Author: Madison Christian

The microscope which allows the specimen to appear 3-dimensional is the

Please choose only one answer:

- phase contrast microscope.
- interference microscope.
- fluorescence microscope.
- dark-field microscope.

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

Question: [The microscope which allows the specimen Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-microscope-which-allows-the-specimen-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-microscope-which-allows-the-specimen-madison-christian-mi?pdf=1505>

4.1.58. Which is not true of mitochondria and chloroplasts?

Author: Madison Christian

Which is not true of mitochondria and chloroplasts?

Please choose only one answer:

- They are found in all organisms.
- They contain DNA and 70S ribosomes.
- They are capable of performing protein synthesis.
- They generate ATP.

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

Question: [Which is not true of mitochondria and Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-is-not-true-of-mitochondria-and-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-is-not-true-of-mitochondria-and-madison-christian-micro?pdf=1505>

4.1.59. Your instructor wants you to bring in an example of a biofilm to yo...

Author: Madison Christian

Your instructor wants you to bring in an example of a biofilm to your lab. Which choice is the best selection for bringing in an intact biofilm for further study?

Please choose only one answer:

- Disconnecting and bringing in the old, mildewed showerhead from the showers in your dorm.
- Scraping the mold off of the shower curtain in your dorm's bathroom into a paper cup using a butter knife.
- Using a toothpick to scrape plaque off of your teeth and smearing it onto a slide to bring in to lab.
- Wiping a sponge across a slimy boulder in a stream in a nearby park and bringing it in to lab.

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

Question: [Your instructor wants you to bring in an Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-your-instructor-wants-you-to-bring-in-an-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-your-instructor-wants-you-to-bring-in-an-madison-christian-mi?pdf=1505>

4.1.60. Which of the following bacteria lack a cell wall?

Author: Madison Christian

Which of the following bacteria lack a cell wall?

Please choose only one answer:

- Treponema pallidum
- Mycobacterium tuberculosis
- Staphylococcus aureus
- Mycoplasma pneumoniae

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

Question: [Which of the following bacteria lack a Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-bacteria-lack-a-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-bacteria-lack-a-madison-christian-micr?pdf=1505>

4.1.61. The macromolecule found in the cell walls of all bacteria is

Author: Madison Christian

The macromolecule found in the cell walls of all bacteria is

Please choose only one answer:

- diaminopimelic acid.
- teichoic acid.
- peptidoglycan.
- glycocalyx.

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

Question: [The macromolecule found in the cell walls Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-macromolecule-found-in-the-cell-walls-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-macromolecule-found-in-the-cell-walls-madison-christian-m?pdf=1505>

4.1.62. Movement in bacteria

Author: Madison Christian

Movement in bacteria

Please choose only one answer:

- is directly to or away from a stimulus.
- relies on the beating of cilia.
- is often referred to as run and tumble.
- may involve pili.
- is often referred to as run and tumble AND may involve pili.

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

Question: [Movement in bacteria Madison Christian Micro Final Practice 1 - Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-movement-in-bacteria-madison-christian-micro-final-practice-1?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-movement-in-bacteria-madison-christian-micro-final-practice-1?pdf=1505>

4.1.63. Facilitated diffusion and active transport

Author: Madison Christian

Facilitated diffusion and active transport

Please choose only one answer:

- both transport molecules into or out of a cell.
- are both not very specific as to which molecules are transported.
- both require a concentration gradient to function.
- both require an expenditure of energy in order to transport the molecules.
- both require a concentration gradient to function AND both require an expenditure of energy in order to transport the molecules.

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

Question: [Facilitated diffusion and active transport Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-facilitated-diffusion-and-active-transport-madison-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-facilitated-diffusion-and-active-transport-madison-micro-fina?pdf=1505>

4.1.64. Which fluorescent stain would be useful for distinguishing between ...

Author: Madison Christian

Which fluorescent stain would be useful for distinguishing between dead and living bacteria?

Please choose only one answer:

- acridine orange
- auramine
- rhodamine
- CTC

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

Question: [Which fluorescent stain would be useful Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-fluorescent-stain-would-be-useful-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-fluorescent-stain-would-be-useful-madison-christian-mic?pdf=1505>

4.1.65. The cytoskeleton

Author: Madison Christian

The cytoskeleton

Please choose only one answer:

- is a dynamic structure composed of microtubules, microfilaments and intermediate filaments.
- is a static structure that gives a rigid shape to the cell.
- consists of flagella and cilia that are internalized.
- is not necessary for movement or reproduction.
- is a static structure that gives a rigid shape to the cell, consists of flagella and cilia that are internalized AND is not necessary for movement or reproduction.

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

Question: [The cytoskele Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-cytoskele-madison-christian-micro-final-practice-1-ken-qu?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-cytoskele-madison-christian-micro-final-practice-1-ken-qu?pdf=1505>

4.1.66. Endotoxin

Author: Madison Christian

Endotoxin

Please choose only one answer:

- consists of LPS.
- determines bacterial shape.
- may have different effects depending on the specific bacterial source.
- is toxic due to the effects of the peptide side chains.
- determines bacterial shape, may have different effects depending on the specific bacterial source AND is toxic due to the effects of the peptide side chains.

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

Question: [Endotoxin Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-endotoxin-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-endotoxin-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

4.1.67. The membranes of eukaryotes and mycoplasma

Author: Madison Christian

The membranes of eukaryotes and mycoplasma

Please choose only one answer:

- contain peptidoglycan.
- contain sterols for "strength".
- contain ergosterol.
- are fixed static structures.

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

Question: [The membranes of eukaryotes and mycoplasma Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-membranes-of-eukaryotes-and-mycoplasma-madison-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-membranes-of-eukaryotes-and-mycoplasma-madison-micro-fina?pdf=1505>

4.1.68. An advantage of the smaller size of prokaryotes, compared to eukary...

Author: Madison Christian

An advantage of the smaller size of prokaryotes, compared to eukaryotes, is

Please choose only one answer:

- high surface area relative to low cell volume.
- more rapid growth rates.
- compartmentalization of cellular processes in membrane-bound organelles.
- predators, parasites, and competitors constantly surround them.
- high surface area relative to low cell volume AND more rapid growth rates.

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

Question: [An advantage of the smaller size of Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-an-advantage-of-the-smaller-size-of-madison-christian-micro-f?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-an-advantage-of-the-smaller-size-of-madison-christian-micro-f?pdf=1505>

4.1.69. The cell wall of Gram-negative organisms

Author: Madison Christian

The cell wall of Gram-negative organisms

Please choose only one answer:

- has a thick peptidoglycan layer.
- has a thin peptidoglycan layer
- is more permeable to various molecules than the Gram-positive cell wall.
- is characterized by an outer membrane containing LPS.
- has a thin peptidoglycan layer AND is characterized by an outer membrane containing LPS.

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

Question: [The cell wall of Gram-negative organisms Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-cell-wall-of-gram-negative-organisms-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-cell-wall-of-gram-negative-organisms-madison-christian-mi?pdf=1505>

4.1.70. The resolving power of a microscope is described as the ability of ...

Author: Madison Christian

The resolving power of a microscope is described as the ability of the microscope to

Please choose only one answer:

- separate clearly two objects that are very close together.
- magnify an object.
- separate the colors of an organism's internal structure.
- see structures at various depths in a tissue.

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

Question: [The resolving power of a microscope is Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-resolving-power-of-a-microscope-is-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-resolving-power-of-a-microscope-is-madison-christian-micr?pdf=1505>

4.1.71. Capsules

Author: Madison Christian

Capsules

Please choose only one answer:

- take up stain well.
- may correlate with an organism's ability to cause disease.
- are typically "negatively" stained.
- are stained as a wet mount
- may correlate with an organism's ability to cause disease, are typically "negatively" stained AND are stained as a wet mount.

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

Question: [Capsules Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-capsules-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-capsules-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

4.1.72. Phagocytosis

Author: Madison Christian

Phagocytosis

Please choose only one answer:

- is the ingestion of particles and may be performed by animal cells.
- is the ingestion of particles and may be performed by bacteria.
- is the secretion of proteins.
- is the formation of a lysosome.
- is the ingestion of particles and may be performed by bacteria AND is the formation of a lysosome.

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

Question: [Phagocytosis Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-phagocytosis-madison-christian-micro-final-practice-1-ken-que?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-phagocytosis-madison-christian-micro-final-practice-1-ken-que?pdf=1505>

4.1.73. Bacteria may be stored

Author: Madison Christian

Bacteria may be stored

Please choose only one answer:

- on a slant in the refrigerator.
- frozen in glycerol solution.
- lyophilized.
- in broth at 37°C.
- on a slant in the refrigerator, frozen in glycerol solution AND lyophilized.

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

Question: [Bacteria may be stored Madison Christian Micro Final Practice 1 -](#)

Flashcards:

<http://www.quizover.com/flashcards/question-bacteria-may-be-stored-madison-christian-micro-final-practice?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-bacteria-may-be-stored-madison-christian-micro-final-practice?pdf=1505>

4.1.74. You are working in a clinical laboratory in a hospital setting. You...

Author: Madison Christian

You are working in a clinical laboratory in a hospital setting. You're handed a throat swab from a patient. You are told specifically that the physician is only interested in what Gram positive cells are present. What might you do first to go about working towards this goal? Identification isn't the main goal here-just a first step to work towards determining what Gram positive cells might be there.

Please choose only one answer:

- Perform a Gram stain.
- Streak the sample for isolation on a tryptic soy agar general purpose medium plate.
- Streak the sample for isolation on a medium that is selective for Gram positive cells while suppressing Gram negative cell growth.
- Grow the microbes on the swab by inoculating a tryptic soy broth liquid medium tube.
- Perform an acid-fast stain.

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

Question: [You are working in a clinical laboratory Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-you-are-working-in-a-clinical-laboratory-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-you-are-working-in-a-clinical-laboratory-madison-christian-mi?pdf=1505>

4.1.75. Late log phase of the bacterial growth curve

Author: Madison Christian

Late log phase of the bacterial growth curve

Please choose only one answer:

- is marked by the production of primary metabolites.
- is marked by the production of secondary metabolites.
- is a transition into the death phase.
- shows a decline in cell numbers.

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

Question: [Late log phase of the bacterial growth Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-late-log-phase-of-the-bacterial-growth-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-late-log-phase-of-the-bacterial-growth-madison-christian-micr?pdf=1505>

4.1.76. A microbe is discovered growing near a deep sea thermal vent. When ...

Author: Madison Christian

A microbe is discovered growing near a deep sea thermal vent. When researchers bring a sample up to the surface and try to grow it in a lab at room temperature in a normal incubator, they are unsuccessful. Why?

Please choose only one answer:

- The pressure isn't the same at sea-level as it is on the ocean floor.
- Oxygen concentrations are very different between the two environments-it's possible the microbe is a strict anaerobe and is poisoned by the air (oxygen) in the lab.
- Salt concentrations might be different in the media the researchers are attempting to use and the salt water the microbe is used to living in. This might be causing osmotic pressure differences that the microbe can't tolerate.
- The temperature is probably very different-the bottom of the ocean would be very cold, while these researchers are trying to grow this microbe at room temperature. The enzymes in the cells are probably outside of their normal operating range at room temperature, and therefore nonfunctional.
- All of the above.

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

Question: [A microbe is discovered growing near a Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-microbe-is-discovered-growing-near-a-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-microbe-is-discovered-growing-near-a-madison-christian-micr?pdf=1505>

4.1.77. The optimal temperature for most human pathogens might be expected ...

Author: Madison Christian

The optimal temperature for most human pathogens might be expected to range from

Please choose only one answer:

- 35-40°C.
- 20-45°C.
- 15-25°C.
- 93-98.6°C.

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

Question: [The optimal temperature for most human Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-optimal-temperature-for-most-human-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-optimal-temperature-for-most-human-madison-christian-micr?pdf=1505>

4.1.78. During which phase of the bacterial growth curve does a bacterial p...

Author: Madison Christian

During which phase of the bacterial growth curve does a bacterial population become much more resistant to harmful conditions?

Please choose only one answer:

- lag phase
- exponential phase
- stationary phase
- late log phase

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

Question: [During which phase of the bacterial growth Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-during-which-phase-of-the-bacterial-growth-madison-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-during-which-phase-of-the-bacterial-growth-madison-micro-fina?pdf=1505>

4.1.79. A medium that inhibits the growth of organisms other than the one b...

Author: Madison Christian

A medium that inhibits the growth of organisms other than the one being sought is termed a(n)

Please choose only one answer:

- synthetic medium.
- specific culture medium
- selective medium
- enrichment medium.

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

Question: [A medium that inhibits the growth of Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-medium-that-inhibits-the-growth-of-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-medium-that-inhibits-the-growth-of-madison-christian-micro?pdf=1505>

4.1.80. Small organic molecules that must be provided to bacteria in order ...

Author: Madison Christian

Small organic molecules that must be provided to bacteria in order for them to grow are called

Please choose only one answer:

- minerals.
- growth factors.
- water.
- vitamins.

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

Question: [Small organic molecules that must be Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-small-organic-molecules-that-must-be-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-small-organic-molecules-that-must-be-madison-christian-micro?pdf=1505>

4.1.81. You take absorbance readings on a spectrophotometer across a 6 hour...

Author: Madison Christian

You take absorbance readings on a spectrophotometer across a 6 hour culture of E. coli cells growing in tryptic soy broth (TSB). Your absorbance readings clearly indicate a lag phase, a log phase, and a stationary phase. You come back in and take readings at 8, 10, 12, 14, and 16 hours, but the absorbance number remains the same. Shouldn't it start coming down as the closed batch culture enters death phase? What's the most likely thing that is happening?

Please choose only one answer:

- Clearly, something is wrong with the spectrophotometer and it isn't measuring the correct values. Perhaps something is on the detector, making it register falsely high absorbance numbers.
- When we establish a growth curve, we should actually plot the log of the number of viable cells vs. time. However, a spectrophotometer can only measure absorbance. Absorbance is NOT the same as the number of viable cells. Many of the cells in the tube are most likely dead, but the machine can't discriminate between a live cell and a dead one. This keeps the absorbance high even into the death phase.
- It'll happen-E. coli just grow slowly. We haven't gotten to the end of the stationary phase yet. Be patient!
- Perhaps there's a big smudge of something on the tube that is blocking some of the light. This would lead to an elevated reading for every timepoint after the smudge was placed on the tube.

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

Question: [You take absorbance readings on a Madison Christian Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-you-take-absorbance-readings-on-a-madison-christian-micro-fin?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-you-take-absorbance-readings-on-a-madison-christian-micro-fin?pdf=1505>

4.1.82. Generally the proteins of thermophiles

Author: Madison Christian

Generally the proteins of thermophiles

Please choose only one answer:

- resist denaturation.
- react more efficiently with DNA.
- are easily denatured.
- have a particular amino acid sequence that restricts bond formation.
- are easily denatured AND have a particular amino acid sequence that restricts bond formation.

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

Question: [Generally the proteins of thermophiles Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-generally-the-proteins-of-thermophiles-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-generally-the-proteins-of-thermophiles-madison-christian-micr?pdf=1505>

4.1.83. A hot tub (approx. 104 deg. F or 40 deg. C) would most likely contain

Author: Madison Christian

A hot tub (approx. 104 deg. F or 40 deg. C) would most likely contain

Please choose only one answer:

- psychrophiles.
- partiers.
- thermophiles.
- mesophiles.

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

Question: [A hot tub approx. 104 deg. F or 40 deg. Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-hot-tub-approx-104-deg-f-or-40-deg-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-hot-tub-approx-104-deg-f-or-40-deg-madison-christian-micro?pdf=1505>

4.1.84. The scientist that contributed most to the development of pure cult...

Author: Madison Christian

The scientist that contributed most to the development of pure culture techniques was

Please choose only one answer:

- Alexander Fleming.
- Louis Pasteur.
- Edward Jenner.
- Robert Koch.

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

Question: [The scientist that contributed most to Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-scientist-that-contributed-most-to-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-scientist-that-contributed-most-to-madison-christian-micr?pdf=1505>

4.1.85. Agar

Author: Madison Christian

Agar

Please choose only one answer:

- is a useful nutrient source for most bacteria.
- is a hydrolysate of proteins.
- stays liquid through the typical range of incubation temperatures.
- has chemical and physical properties that make it almost ideal for solidifying media.

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

Question: [Agar Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-agar-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-agar-madison-christian-micro-final-practice-1-ken-quest?pdf=1505>

4.1.86. Organisms may derive energy from

Author: Madison Christian

Organisms may derive energy from

Please choose only one answer:

- sunlight.
- metabolizing chemical compounds.
- little tiny AAAAAAAAAA batteries.
- temperature gradients.
- sunlight AND metabolizing chemical compounds.

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

Question: [Organisms may derive energy from Madison Christian Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-organisms-may-derive-energy-from-madison-christian-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-organisms-may-derive-energy-from-madison-christian-micro-fina?pdf=1505>

4.1.87. Organisms may derive energy from

Author: Madison Christian

Organisms may derive energy from

Please choose only one answer:

- sunlight.
- metabolizing chemical compounds.
- little tiny AAAAAAAAAA batteries.
- temperature gradients.
- sunlight AND metabolizing chemical compounds.

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

Question: [Organisms may derive energy from Madison Christian Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-organisms-may-derive-energy-from-madison-christian-mi-3942222?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-organisms-may-derive-energy-from-madison-christian-mi-3942222?pdf=1505>

4.1.88. The enzymes that deal with toxic oxygen-containing molecules is/are

Author: Madison Christian

The enzymes that deal with toxic oxygen-containing molecules is/are

Please choose only one answer:

- glycolase.
- superoxide dismutase
- catalase.
- hydrogen peroxidase.
- superoxide dismutase AND catalase.

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

Question: [The enzymes that deal with toxic oxygen Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-enzymes-that-deal-with-toxic-oxygen-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-enzymes-that-deal-with-toxic-oxygen-madison-christian-mic?pdf=1505>

4.1.89. You are in charge of water quality for your city's water treatment ...

Author: Madison Christian

You are in charge of water quality for your city's water treatment plant. Of the methods at your disposal, which will be the most efficient and cheapest method of determining the number of viable bacteria in the water coming out of your plant?

Please choose only one answer:

- Direct counts using a microscope and a counting chamber.
- Using a Coulter counter machine.
- Performing serial dilutions of your samples and doing spread plate counts
- Using membrane filtration followed by placing the membrane in a growth medium for colony counts after incubation.
- Biochemical analysis of secondary metabolites in the water that are given off by bacteria.

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

Question: [You are in charge of water quality for Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-you-are-in-charge-of-water-quality-for-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-you-are-in-charge-of-water-quality-for-madison-christian-micr?pdf=1505>

4.1.90. Agar replaced gelatin as the gelling (solidifying) agent for media ...

Author: Madison Christian

Agar replaced gelatin as the gelling (solidifying) agent for media because

Please choose only one answer:

- agar is much cheaper.
- much fewer bacteria can break down agar than gelatin.
- agar is solid at body temperature.
- gelatin became unavailable during World War II.
- much fewer bacteria can break down agar than gelatin AND agar is solid at body temperature.

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

Question: [Agar replaced gelatin as the gelling Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-agar-replaced-gelatin-as-the-gelling-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-agar-replaced-gelatin-as-the-gelling-madison-christian-micro?pdf=1505>

4.1.91. The speed of enzymatic reactions approximately doubles for each

Author: Madison Christian

The speed of enzymatic reactions approximately doubles for each

Please choose only one answer:

- 5° C rise in temperature.
- 10° C rise in temperature.
- 20° C rise in temperature.
- 30° C rise in temperature.

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

Question: [The speed of enzymatic reactions approximately Madison Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-speed-of-enzymatic-reactions-approximately-madison-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-speed-of-enzymatic-reactions-approximately-madison-micro?pdf=1505>

4.1.92. The solidifying agent used most successfully in bacterial nutrient ...

Author: Madison Christian

The solidifying agent used most successfully in bacterial nutrient media is

Please choose only one answer:

- gelatin.
- peptone.
- agar.
- starch.

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

Question: [The solidifying agent used most successfully Madison Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-solidifying-agent-used-most-successfully-madison-micro-fi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-solidifying-agent-used-most-successfully-madison-micro-fi?pdf=1505>

4.1.93. An organism called Bacillus fastidiosus

Author: Madison Christian

An organism called Bacillus fastidiosus

Please choose only one answer:

- might be expected to be very flexible as to growth requirements.
- might be expected to be very strict as to its growth requirements.
- would probably be grown on a chemically defined media.
- might be expected to have a rod shape.
- might be expected to be very strict as to its growth requirements, would probably be grown on a chemically defined media AND might be expected to have a rod shape.

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

Question: [An organism called Bacillus fastidiosus Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-an-organism-called-bacillus-fastidiosus-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-an-organism-called-bacillus-fastidiosus-madison-christian-mic?pdf=1505>

4.1.94. When doing experiments with bacteria

Author: Madison Christian

When doing experiments with bacteria

Please choose only one answer:

- it is usually not necessary to standardize which stage of growth is used.
- it is best to use colonies as all the bacteria in a colony are at the same stage of growth.
- it is best to use bacteria from the same stage of growth.
- the age of the bacteria is not important.

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

Question: [When doing experiments with bacteria Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-when-doing-experiments-with-bacteria-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-when-doing-experiments-with-bacteria-madison-christian-micro?pdf=1505>

4.1.95. In nature, bacteria

Author: Madison Christian

In nature, bacteria

Please choose only one answer:

- often grow in close association with many other kinds of organisms.
- may remain in a prolonged exponential phase.
- frequently synthesize structures such as slime layers.
- may adhere to surfaces by means of pili and slime layers.
- All of the choices are correct.

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

Question: [In nature bacteria Madison Christian Micro Final Practice 1 - Ken](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-nature-bacteria-madison-christian-micro-final-practice-1-k?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-nature-bacteria-madison-christian-micro-final-practice-1-k?pdf=1505>

4.1.96. A urine sample with more than 100,000 organisms is considered indic...

Author: Madison Christian

A urine sample with more than 100,000 organisms is considered indicative of infection. A urine sample containing 5,000 bacteria, with a generation time of 30 minutes, sits for 3 hours before finally being assayed. How many bacteria will then be present within the sample?

Please choose only one answer:

- 10,000
- 64,000
- 100,000
- 320,000

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

Question: [A urine sample with more than 100 000 Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-urine-sample-with-more-than-100-000-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-urine-sample-with-more-than-100-000-madison-christian-micro?pdf=1505>

4.1.97. Organisms that use organic molecules as their source of carbon are ...

Author: Madison Christian

Organisms that use organic molecules as their source of carbon are called

Please choose only one answer:

- chemotrophs.
- organoheterotrophs.
- heterotrophs.
- autotrophs.

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

Question: [Organisms that use organic molecules as Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-organisms-that-use-organic-molecules-as-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-organisms-that-use-organic-molecules-as-madison-christian-mic?pdf=1505>

4.1.98. Various strains of E. coli

Author: Madison Christian

Various strains of E. coli

Please choose only one answer:

- may cause disease.
- may be harmless.
- are all exactly the same
- are all very different from one another.
- may cause disease AND may be harmless.

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

Question: [Various strains of E. coli Madison Christian Micro Final Practice](#)

Flashcards:

<http://www.quizover.com/flashcards/question-various-strains-of-e-coli-madison-christian-micro-final-pract?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-various-strains-of-e-coli-madison-christian-micro-final-pract?pdf=1505>

4.1.99. In higher organisms, successful mating can occur between members of...

Author: Madison Christian

In higher organisms, successful mating can occur between members of the same

Please choose only one answer:

- genus.
- species.
- class
- order.

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

Question: [In higher organisms successful mating can Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-higher-organisms-successful-mating-can-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-higher-organisms-successful-mating-can-madison-christian-m?pdf=1505>

4.1.100. E. coli 0157:H7

Author: Madison Christian

E. coli 0157:H7

Please choose only one answer:

- is Gram-positive.
- is a normal constituent of the intestinal tract.
- does not ferment sorbitol.
- produces a toxin.
- does not ferment sorbitol AND produces a toxin.

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

Question: [E. coli 0157:H7 Madison Christian Micro Final Practice 1 - Ken Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-e-coli-0157-h7-madison-christian-micro-final-practice-1-ken-q?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-e-coli-0157-h7-madison-christian-micro-final-practice-1-ken-q?pdf=1505>

4.1.101. Modern approaches to evolutionary taxonomy often involve

Author: Madison Christian

Modern approaches to evolutionary taxonomy often involve

Please choose only one answer:

- biochemical differences.
- comparison of DNA and RNA.
- protein similarities.
- lactose fermentation.

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

Question: [Modern approaches to evolutionary taxonomy Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-modern-approaches-to-evolutionary-taxonomy-madison-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-modern-approaches-to-evolutionary-taxonomy-madison-micro-fina?pdf=1505>

4.1.102. Very often clinically relevant information may be obtained by exami...

Author: Madison Christian

Very often clinically relevant information may be obtained by examining

Please choose only one answer:

- a wet mount.
- the size and shape of the organism.
- the sequence of proteins.
- the transformation ability.
- a wet mount AND the size and shape of the organism.

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

Question: [Very often clinically relevant information Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-very-often-clinically-relevant-information-madison-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-very-often-clinically-relevant-information-madison-micro-fina?pdf=1505>

4.1.103. Streptococcus pyogenes would be

Author: Madison Christian

Streptococcus pyogenes would be

Please choose only one answer:

- beta hemolytic and catalase negative
- beta hemolytic and catalase positive.
- alpha hemolytic and catalase negative.
- alpha hemolytic and catalase positive.

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

Question: [Streptococcus pyogenes would be Madison Christian Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-streptococcus-pyogenes-would-be-madison-christian-micro-final?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-streptococcus-pyogenes-would-be-madison-christian-micro-final?pdf=1505>

4.1.104. DNA probes have been very useful in

Author: Madison Christian

DNA probes have been very useful in

Please choose only one answer:

- coding the DNA of organisms grown in vivo.
- identifying organisms in pure culture.
- detecting toxins.
- diagnosing diseases of protozoa.

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

Question: [DNA probes have been very useful in Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-dna-probes-have-been-very-useful-in-madison-christian-micro-f?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-dna-probes-have-been-very-useful-in-madison-christian-micro-f?pdf=1505>