

Online Users

(last 5 minutes)

Mary Wiseman

Administration

People

Participants

Topic outline



Biology

Welcome to Biology Online

The skills you will acquire in this course contain the basic knowledge you will need for your high school biology course. Relax! Everyone can do it. [Click to see the course goals.](#)

- Announcements
- Meet Your Virtual Instructor
- Student Lounge
- HELP Forum
- Help Topics
- Orientation Topics

Assignments to Complete First:

- Learning Habits Survey
- Biology Journal Entry
- Learning Contract

Resources:

- Biology Resources in the Real World

Have You...

Completed these Important Tasks:

- read and completed the [Orientation?](#)
- [created your profile?](#)
- introduced yourself in the [Student Lounge?](#)
- completed the [Learning Habits survey?](#)
- logged in your [Biology Journal Entry?](#)
- clicked on and read about your [Learning Contract?](#)

▼ Cells, Cell Processes & Cell Division - Toggle	Topic 1
▼ Chemistry of Life - Toggle	Topic 2
▼ Photosynthesis & Respiration - Toggle	Topic 3
▼ Genetics - Toggle	Topic 4
▼ Ecology - Toggle	Topic 5
▼ Anatomy & Physiology - Toggle	Topic 6
▼ Evolution & Natural Selection - Toggle	Topic 7

Biology Online was developed in eight modules using collapsible topics in Moodle.

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▲ Cells, Cell Processes & Cell Division - Toggle
Topic 1

1

- Objectives or Essential questions
- Pre-Assessment: What do you know about cells?
- Time on Learning: Cells, Cell Processes & Cell Division
- Lessons**
 - Lesson 1 - What is a cell?
 - Lesson 2 -Cell Types
 - Lesson 3: Cell Division Questions
 - Time on Learning: Cells, Cell Processes & Cell Division
 - Reinforcement Activity
- Post Assessment: Cells
- Resources: Cells, Cell Processes & Cell Division

Modules expand to reveal activities, lessons, quizzes and assessments.

Biology Modules

Educator Licensure & Distance Learning at the Collaborative for Educational Services

Jump to...

MassDLN > BIO2010 > Forums > Chemistry of Life: Enrichment Activity

Search forums

This forum allows everyone to choose whether to subscribe or not

Everyone can now choose to be subscribed

[Subscribe to this forum](#)

Use the food pyramid below to calculate the percentage of daily values a humans need to maintain a proper diet with respect to ratios between the organic molecules.

Connection to current events:

Obesity as an epidemic in the United States. Listen to the following stories and make connections to nutrition

- Listen to the story, '*Marc Ambinder Makes Fighting Obesity Personal*' by clicking on the media player below OR [click here to listen to the story.](#)
- Listen to this story from the Director of 'Food Inc.' by clicking on the media player below OR [click here to listen to the story.](#)

Now, please work the following Steps:

Step 1: Determine the daily needs for the average adult with respects to carbohydrates, proteins vitamins and fats.

Step 2: Create a pie chart that breaks down these percentages.

Step 3: Click on **Add a new discussion topic** button below and link to your pie chart

[Add a new discussion topic](#)

(There are no discussion topics yet in this forum)

You are logged in as Mary Wiseman: Student (Return to my normal role)



collaborative.org

Activities are offered via a variety of delivery methods.

Biology Modules

Educator Licensure & Distance Learning at the Collaborative for Educational Services

Jump to...

MassDLN > BIO2010 > Resources > Lesson 1 - What is a cell?

Cells, Cell Processes & Cell Division

TIME ON LEARNING - Lesson 1

The Cell Theory

1. All [living things](#) are made of cells.
2. Cells are the basic units of life.
3. Cells come only from other cells.

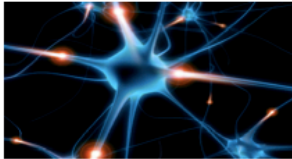
What is a cell?

Cells are the structural and functional units of all living organisms. Some organisms, such as bacteria, are **unicellular**, consisting of a single cell. Other organisms, such as humans, are **multicellular**, or have many cells—an estimated 100,000,000,000,000 cells! ([source](#))

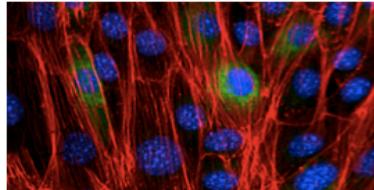
The discovery of cells: [view timeline](#)

Cool pictures of cells

Brain Cell



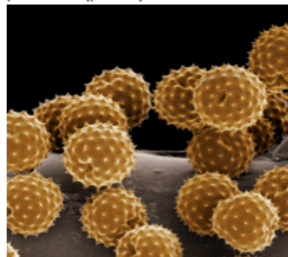
Cancer Cells



bacteria cell



plant cell (pollen)

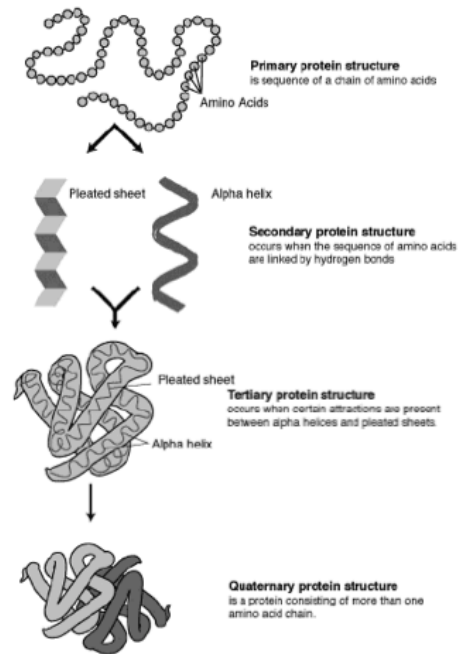


Lessons include images and text.

4 Types of Organic Molecules

You have earned 0 point(s) out of 1 point(s) thus far.

Proteins are a type of organic molecule



They come in several forms:

1. Primary protein structure: add text & image
2. Secondary protein structure: see above
3. Tertiary protein structure: see above
4. Quaternary protein structure: see above

- Proteins are a type of organic molecule
- Proteins are just for professional sports

Quizzes include illustrations, text and multiple choices.

Re-teach Photosynthesis - Attempt 1

1

Which of the following organic compounds are responsible for providing energy for a cell?

Marks: --/1



Choose one answer.

- a. Lipids
- b. Proteins
- c. Nucleic Acids
- d. Carbohydrates

Submit

Save without submitting

Submit page

Submit all and finish

You are logged in as Mary Wiseman: Student (Return to my normal role)



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Quizzes also include images and multiple choices.