

Who's Who in Biotechnology



Introduction

Lesson Introduction

Biotechnology is becoming a bigger and bigger topic around the world. This wasn't something that happened over night. The history and future of biotechnology has become what it is today through the hard work of many people over the years. This activity will help students learn more about the people who have made biotechnology what it is today!



Grades: 6-8

Time Needed: Five, 45-min class periods

Learning Objectives:

After completing this lesson, students will be able to:

1. Identify important people in the biotechnology
2. Identify the important contributions of people to biotechnology

Materials:

- Books for research
- Computers for Internet research
- List of important people in biotechnology (suggestions)

Next Generation Science Standards (NGSS)

As a result of activities for grades 6-8, all students will learn content in these areas:

Topics

- History of Biotechnology

Performance Expectation

- None

Dimension

Practices:

- Obtaining, evaluating, and communicating information

Disciplinary Core Ideas:

- **LS3:** Heredity

Cross-Cutting Concepts:

- Stability & Change



Instructional Process

Day 1

1. Hand out the student worksheet. This will provide the students with a list of important people in biotechnology. (This is just a list of some suggestions. You may have your own or might allow students to find their own person.)
2. Explain what you expect in the research paper. This will depend on the level you are working with and what is expected of them in a writing project, including length of the paper and the citing of sources. (You may consider talking to your Language Arts teacher to get suggestions.)
3. Allow students to begin researching their person using books or Internet resources. Remind students that they will need to site their sources as they do this activity.

Day 2

1. Review the expectations of the paper. Remind students that they have today to finish research and then any extra research will need to be done on their own time.
2. Allow students the rest of the time to finish their research. Remind students that they will need to site their sources as they do this activity.

Day 3

1. Review with students of expectations. Remind them to keep track of their research as they are writing their papers and are citing their sources.
2. Students will begin to write their rough draft of their paper.
3. If a student finishes before the end of class, they may begin the editing process, either through you as the teacher, a peer, or both.

Day 4

1. Once again, review with the expectations with students. Highlighting any concerns you might have seen as students were working on their rough drafts.
2. Students may finish their rough drafts if needed, but the majority of the day will be spent on editing their drafts. This may be through edits done by you, or by their peers. This is all based on what you want to do.



Day 5

1. This is the final day of work on the research paper. Remind students of the expectations and anything else you think is important as they begin their final drafts.
2. Students will spend the day writing their final drafts in preparation of turning them in at the end of the time.
3. If students do not complete their paper, they may take it home to finish and turn it in at the beginning of the next class period.

Gregor Mendel	Henry Wallace	Dan Glickman	Roger Salquist
Bill & Melinda Gates	Rita Colwell	Ingo Potrykus	Peter Beyer
Charles Arntzen	Roger Beachy	Richard Flavell	Derek Lovely
Greg Venter	Barbara McClintock	Watson & Crick	

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Student Worksheet



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Biotechnology is becoming a bigger and bigger topic around the world. This wasn't something that happened over night. The history and future of biotechnology has become what it is today through the hard work of many people over the years. During this activity you will learn more about the people who have made biotechnology what it is today!

Materials:

- Books for research
- Computers for Internet research
- List of important people in biotechnology (suggestions)

Procedure:

Day 1

1. Begin looking over the list of important people in biotechnology at the bottom of this page. This is just a list of some suggestions. You may have your own person in mind for this project.
2. We will go over as a class what is expect in the research paper.
3. You will begin researching your person using books or Internet resources. Remember that you will need to site your sources as you do this activity.

Day 2

1. We will review the expectations of the paper. You have today to finish research and then any extra research will need to be done on your own time.
2. Continue to use the rest of the time to finish your research. Remember that you will need to site your sources as you do this activity.

Day 3

1. We will review the expectations of the paper. One important thing to remember is to keep track of your research as you are writing your paper and are citing your sources.
2. You will begin to write your rough draft of your paper.
3. If you finish before the end of class, you may begin the editing process either with a peer, or you may ask me for some help.



Day 4

1. Once again, we will review what I expect from you when you turn in your paper tomorrow.
2. If you are not finished with your rough draft you may take some time to finish it, but the majority of the day will be spent on editing your paper. Once again, this may be done with a peer, or you may come and talk to me.

Day 5

1. This is the final day of work on the research paper. We will go over expectations one last time before you hand in your paper.
2. You will spend the day writing your final draft in preparation of turning it in at the end of the time.
3. If you do not complete your paper, you may take it home to finish and turn it in at the beginning of the next class period.

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