**HOSA Mini: Did You Say Biotechnology**

*Objectives:*

Upon completion of this lesson, students will have sufficient knowledge of, and be able to:

1. define biotechnology.
2. explore the history of biotechnology.

3. understand the impact of biotechnology on the future.

4. identify the role of biotechnology in fighting Covid-19.

5. survey available careers in the biotechnology area

6. research one career in biotechnology of interest.

*Time:*

* Lecture on biotechnology (20 min)
* Videos related to biotechnology (1/2 class)
* Research biotechnology careers (1/2 class)

*Materials:*

* ppt
* internet access
* Trifold board

*Instruction:*

1. Share PowerPoint on Biotechnology
2. Share videos from the [Biotechnology Playlist](https://www.youtube.com/playlist?list=PL7_N-H8d6RiNKVE9xp2yXpeHoEHfUSBcO)
3. Explore [Biotechnology Careers](https://www.biotech-careers.org/careers)
4. Develop a [Health Career Display](https://hosa.org/wp-content/uploads/2021/09/21-22-HCD-FINAL-Sept11.pdf)

*Assessment:*

1. Completed Health Career Display

*Standards:*

NCHSE

1.2.2 Describe biomedical therapies as they relate to the prevention, pathology, and treatment of

disease.

• Gene testing

• Gene therapy

• Cloning

• Stem cell research

3.1.3 Analyze the impact of emerging issues on healthcare delivery systems.

• Addictions

• Bioethics

• Epidemiology

• Socioeconomics

• Technology

4.3.1 Research levels of education, credentialing requirements, and employment trends in health

professions.

4.3.2 Distinguish differences among careers within a health science pathway.

• Biotechnology research and development

• Diagnostic services

• Health informatics

• Support services

• Therapeutic services

*For additional Curriculum Crosswalks see* [*CE Useful Tools*](http://hosa.org/CEUsefulTools)