

ccUnit: Science for Success	Lesson 6: Life Science Human Body and Health: Transmission of Disease
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Objectives

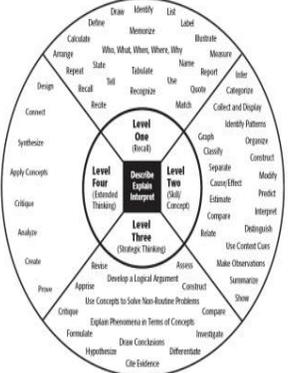
The student will be able to:

- Explain the ways a pathogen is spread
- Explain what airborne transmission is.
- Analyze the importance of vaccines.

This lesson takes one class period.

Materials:

- <https://www.youtube.com/watch?v=GHWpunMw2Tg> (video-Writing Short Answer Responses for the GED Science Exam (3:50))
- New Readers Press Science for the GED Test pages20-21.
- Computers
- <https://www.youtube.com/watch?v=eSUv3ezDIQ8> (video-GED Study Guide/ Science-- Nutrition, Health and the Human Body (3:06)
- <https://www.youtube.com/watch?v=m-3Ju0EX3gQ> (video-ways germs are transmitted (2:51))
- <https://www.youtube.com/watch?v=3UAo6V6EgoU> (Our Immune System ... Our Body's First Line of Defense-video-(8:08))
- <https://www.youtube.com/watch?v=PJY6tk2aCHM> (video-sample short answer response (2:12))
- <http://theweek.com/articles/549466/deadly-diseases-are-making-comeback> (These Deadly Diseases Are Making a Comeback- article from Global Post Article on diseases)



WDOK: 1, 2, 3, 4

CCSS:

SDSS: MS-LS2-1, MS-LS2-4

Key Words

- Disease transmission- the act or process of transferring something, especially a disease.
- Vaccines- inoculation; shot; a preparation containing weakened or dead microbes of the kind that cause a disease, administered to stimulate the immune system to produce antibodies against that disease
- Immunity- a body's ability to resist a disease. Immunity may exist naturally or as a result of inoculation or previous infection.
- Mutate- change; to undergo change, or make something undergo change.
- Infection- when the body becomes invaded by germs.
- Germs- microorganisms that cause disease
- Antibodies- destroy germs
- Antibiotics- man-made drugs that help our bodies overcome infection

Introduction: We have had a resurgence of childhood diseases that we thought were eradicated or nearly eradicated over the last few years. Why has this happened? Many children are not vaccinated against these diseases. Most, if not all, schools require children to have been vaccinated before they begin kindergarten, but more and more parents are not having their children vaccinated. Let's read an article titled, *These Deadly Diseases are Making a Comeback*.

Instructional Activities: 1. Read pages 20 and 21 from the text, *Science for the GED Test*.
 2. Watch the five you tube videos I have linked to this lesson and take notes. They are *How Germs are Spread* (2:51), *Our Immune System...Our Body's First Line of Defense* (8:08), *Science-- Nutrition, Health and the Human Body* (3:06), and *Writing Short Answer Responses for the GED Science*

Exam(3:49).

3. With the notes you have taken over the videos, construct a 10-minute response to practice for the GED Science writing. The prompt is: Vaccines, preparations that prevent disease, are not being given to all children in the U.S. Explain the effects this practice could have on health and morbidity in the U.S. Include multiple pieces of evidence from the text to support your answer.

Student Product

- Students will turn in their writing on vaccines and their effects on health and morbidity.