Infectious Diseases

Student Research Resources

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| **HISTORY** | | |
| Reading | Video | Interactive or additional reading/video |
| [Diseases and Epidemics](http://www.sciencemuseum.org.uk/broughttolife/themes/diseases) | [A Short History of Humans and Germs](https://youtu.be/Utcn6LGYHSI?list=PLp-wXwmbv3z88LzFNWI3D2p3rRcp3AKVQ)  (3 videos, 3 ½ min each) | [How is a Pandemic Flu different than a Seasonal Flu?](https://www.cdc.gov/flu/pandemic-resources/basics/about.html) (comparison chart, plus [video](https://youtu.be/DdFCx8jbesQ?list=PL9rasaw-kjnzq6gz7bkMg8TQPMVKv7Bjl) link at bottom of page 3:23) |
| Tufts University: [How Infections diseases have Molded History](https://wikis.uit.tufts.edu/confluence/download/attachments/76418575/ID+2.2+Lesson+1.2+Workbook.pdf) | [How Pandemics Spread](http://ed.ted.com/lessons/how-pandemics-spread) (TEDEd 8 minutes) | [The Black Death](http://www.sciencemuseum.org.uk/broughttolife/themes/diseases/black_death) (interactive) |
| Challenge Level: [Science Net: Your Health](http://sciencenetlinks.com/media/filer/2012/02/17/yourhealth9-21.pdf) | [1918 Flu](http://www.pbs.org/wgbh/nova/body/1918-flu.html) (12:33) | [The Most Dangerous Outbreaks in US History](http://www.healthline.com/health/worst-disease-outbreaks-history) |
| [Pandemics: Past, Present and Futur](http://www.medicalnewstoday.com/articles/148945.php)e (all 3 pages)  Or  [Disease Evolution: Our Long History of Fighting Viruses](http://www.iflscience.com/health-and-medicine/disease-evolution-our-long-history-fighting-viruses/) | [How We Conquered the Smallpox Virus (4:33)](https://youtu.be/yqUFy-t4MlQ) | [Epidemics Through History](http://www.cnn.com/interactive/2014/10/health/epidemics-through-history/) |

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| **BASIC BACKGROUND INFO** | | |
| Reading | Video | Interactive or additional reading/video |
| [Kids Health: Germs](https://kidshealth.org/en/teens/care-about-germs.html) (basic level reading) | [Tufts University: Great Diseases](http://sites.tufts.edu/greatdiseases/student/infectious-disease/) (7:07) | [Cell vs. Virus: A battle for Health](https://ed.ted.com/lessons/cell-vs-virus-a-battle-for-health-shannon-stiles#review) |
| [Kids Health:](https://kidshealth.org/en/teens/immune.html) [Immune System](https://kidshealth.org/en/teens/immune.html) (basic teen level)  Or  [Kids Health: What are Germs?](http://kidshealth.org/en/kids/germs.html) (Elementary Level Reading, spanish available, audio available) | Smithsonian [Virus vs. Bacteria](http://www.smithsonianmag.com/videos/category/science/ask-smithsonian-whats-the-difference-betwe/?no-ist) (1:48)  **&**  [What Are Microbes?](https://youtu.be/_Vj0cIgwpQI) (2:26) (turn on CC)  **&**  [Microorganisms](https://youtu.be/JZjzQhFG6Ec) (4:06) | [BBC Bitesized Diseas](http://www.bbc.co.uk/bitesize/ks3/science/organisms_behaviour_health/disease/activity/)e ( interactive Video with Quiz Fungi, bacteria, viruses, toxins, barriers past skin, mouth, white blood cells, microbes, antibodies, pathogens (approx. 10 minutes perhaps?) |
| [Immune System in More Detail](http://www.nobelprize.org/educational/medicine/immunity/immune-detail.html) | [The Immune System Explained](https://www.youtube.com/watch?v=zQGOcOUBi6s) (6:48) | [Raindrops Catapult Bacteria Into The Air](http://www.npr.org/sections/health-shots/2017/03/07/518811502/watch-raindrops-catapult-bacteria-into-the-air-and-its-beautiful?sc=17&f=1003&utm_source=iosnewsapp&utm_medium=Email&utm_campaign=app) high-speed cameras & fluorescent dye, the drops of water falling on bacteria. |
| [Infections: Bacterial and Viral](https://www.betterhealth.vic.gov.au/health/conditionsandtreatments/infections-bacterial-and-viral) | [Virus Evolution](https://youtu.be/3Ms04x6MvMY) (42:00) | [How Vaccines Work](http://www.historyofvaccines.org/activities) Learn actively by finding out how vaccines work, how vaccines are made, how to visualize risk, and more. |
| [Prokaryotes, Eukaryotes and Viruses Tutorials](http://www.biology.arizona.edu/cell_bio/tutorials/pev/main.html) (humorous analogies) |  | [Immune Platoon](https://www.cdc.gov/bam/diseases/immune/index.html)/ [Disease Database](https://www.cdc.gov/bam/diseases/immune/disease_database.html) (for kids) |

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| **EVEN MORE>>>>>**  **Games, Quizzes, videos, Podcasts and readings** | | |
| [MedMyst:](http://webadventures.rice.edu/stu/Games/MedMyst/) Investigate Infectious Disease Outbreaks | [Scrub Club](http://www.scrubclub.org/home.aspx) | [Disease Test](http://www.bbc.co.uk/bitesize/quiz/q46363343) |
| [Latch & Key](https://askabiologist.asu.edu/aab_tools/games/LatchCatch/Latch-Catch.swf) | [NPR Podcast](http://www.npr.org/sections/goatsandsoda/2017/02/14/511227050/why-killer-viruses-are-on-the-rise): Why Killer Viruses on Are the Rise (8:17)   * [transcript](http://www.npr.org/templates/transcript/transcript.php?storyId=511227050) | [Seven Reasons we’re more at Risk than Ever for a Global Pandemic](http://www.cnn.com/2017/04/03/health/pandemic-risk-virus-bacteria/index.html): CNN article easy to understand |
| [Unseen Enemy](http://www.takesallofus.com/#the-film) (4/7/2017) world broadcast day. Currently trailer is only available with supporting website ) | [Viral Attack](https://askabiologist.asu.edu/viral-attack): a fun way to learn how the immune system works. | [Immune System Game](http://www.nobelprize.org/educational/medicine/immunity/game/index.html)  And  Play [Tuberculosis: Experiments & Discoveries](http://www.nobelprize.org/educational/medicine/tuberculosis/) |