

STEM Sites to Learn about COVID-19

[Education Resources](#) for Parents and Educators

How to spot COVID19 Misinformation. [Time Magazine](#). 3/16/20.

Corona Virus [Comic for Kids](#)

[Exploratorium](#) (<https://www.exploratorium.edu/learn>) Younger Children

[Computer Science Teachers Association](#) has a ton of epidemic simulations (some made by K12 students), great resources on COVID-19 especially how computer science is used to fight the disease

- Outbreak Squad Game: <https://outbreaksquad.org>
- Scratch Epidemic Simulation: <https://scratch.mit.edu/projects/376656449/>

Soap and Sanitizers

- Video: How Soap Interacts with a Virus: <https://www.exploratorium.edu/video/how-does-soap-inactivate-coronaviruses>
- Chemistry of why soap kills viruses video: <https://www.youtube.com/watch?v=LKVUarhtvE>
- How Hand Sanitizers attack viruses and bacteria and what's in them. [YouTube Video](#). PBS Studios. (3:21) Middle School-Adult

Products and Behaviors In the News

- Why Do People Hoard Toilet Paper? A Look At Irrational Behaviors In Uncertain Times. [NPR Interview](#) (7:02)
- How Toilet Paper is Made. [YouTube Video](#) (Discovery Channel). (5:47) Elementary-Adult.
- How Soap is Made. [YouTube Video](#). (4:59) Elementary-Adult.
- UCLA Student Makes Ventilator with Parts from Home Depot. [CBSN News Spot](#). 3/31/20.
- Masks. Should you make one? What materials? [Washington Post](#). 4/1/20.
- Research Paper Testing Different Materials for Homemade Masks Against the Flu. [Disaster Medicine and Public Health Preparedness](#). 2013.
- How 3D Printers are Helping to Fight Corona Virus. [The New Yorker](#). 3/31/20.
- MIT's [E-Vent Project](#) to automate a manual resuscitator as a potential means for longer-term ventilation.
- Maker Community steps up to create medical supplies. [Time](#). 4/1/20.

Viruses

- Video: How Big is a Virus. Exploratorium Video. : <https://www.exploratorium.edu/video/how-big-virus?autoplay=true> Elementary-Adult

- Where Do New Viruses Come From? Feb.27, 2020. [YouTube Video](#). (10:09) Middle School/High School/College. There is more certainty now that the virus did not escape from a lab.
- Corona Virus Explained and What You Should Do About It as of March 19, 2020. [YouTube Video](#). (8:34) Middle School/High School/College.
- Why Bats Carry So Many Viruses and How Studying Them Can Help Us. [YouTube Video](#). (12:44) High School/College.
- Human impact on biodiversity loss may fuel future pandemics. [ABC News](#). April 8, 2020

Infographics and Data

- New Mexico COVID19 Graphs from the [Daily Lobo](#).
- OPINION: Bad graphs suck: A primer on COVID-19 data coverage. [Daily Lobo 3/23/20](#).
- Using internet linked thermometers to show social distancing is reducing infection rates. [New York Times](#). 3/30/20. Direct [link](#) to Health Temperature Map.
- Simulations of different responses and how they affect infection rates. [Washington Post](#). 3/14/20.
Por qué brotes como el del coronavirus crecen exponencialmente y cómo ‘aplanar la curva’ [En Español](#).
- Projections of case peaking for each state and US from University of Washington. [Institute for Health Metrics and Evaluation](#).
- Using cell phone and other data to track the health emergency progress. [Vox](#). 3/26/20.
- [Our World in Data](#) has great graphs. Compare linear and exponential graphs to isolate growth rates independent of population size.
- Scientists have turned the structure of the coronavirus into music. The song could help researchers find a way to stop the virus. [Science Magazine](#). April 3, 2020.

SOUTHWEST COVID19 Research

- UNM researchers work to find COVID-19 vaccine. [Daily Lobo](#). 3/17/20
- Coronavirus [Clinical Trials Launched at UNM](#) Hospital. 3/30/20.
- Texas A&M researchers create DIY mask for hospitals. [Dallas News](#). 4/1/20
- UNM mechanical engineers, biologists and mathematicians, and 3D printing network collaborate to make masks. [Albuquerque Journal](#). 4/6/20.
- UNM Researchers Devise Way of Decontaminating PPE. [NM Political Report](#). April 11, 2020.
- School of Engineering Leaps Into Making Masks. [Albuquerque Journal](#). April 12, 2020.
- Professor, postdoc win pitch award for COVID-19 efforts. [UNM](#).
- Old Paper Offers Fresh Insights on Disease. [Albuquerque Journal](#). April 14, 2020