

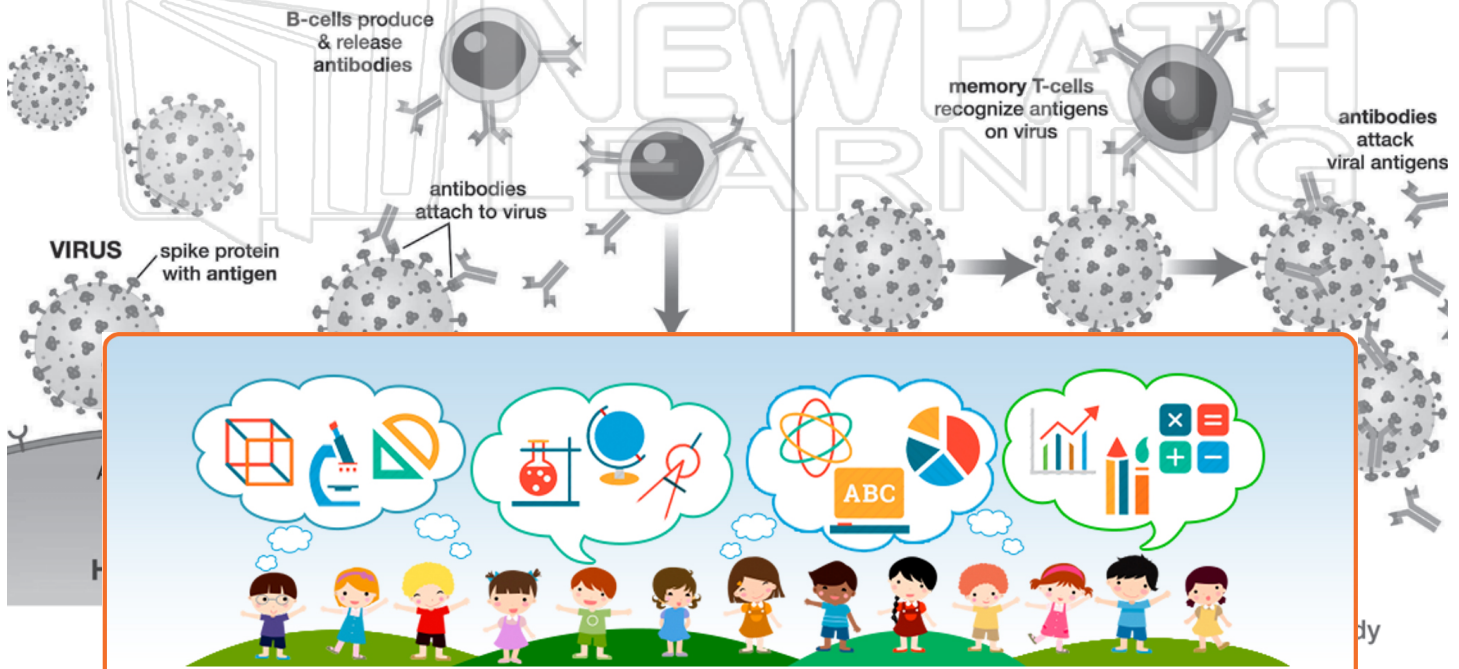


Name _____ Class _____ Date _____

How Vaccines Work

Vaccines “teach” your body how to defend itself when disease-causing agents (**pathogens**), such as viruses or bacteria, invade it. They help develop **immunity** by presenting **antigens** that imitate an infection. There are currently vaccines that help **protect us** against many life-threatening diseases, including meningitis and polio.

Antigens are present on all viruses and bacteria. By injecting particular antigens into the body, the immune system can safely learn to **recognize** them as hostile invaders, produce **antibodies**, and **remember** them for the future.



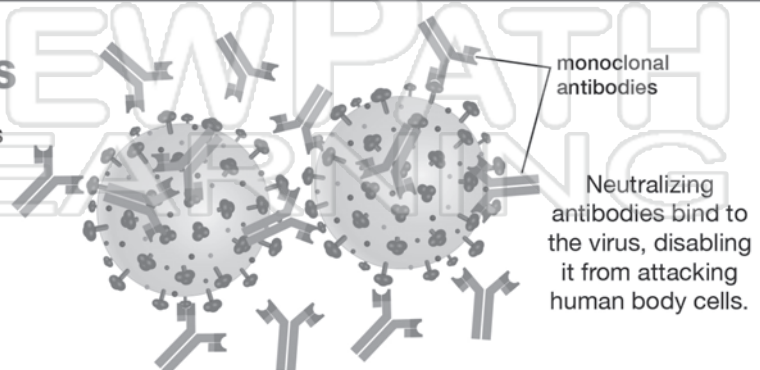
PREVIEW

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- **Biosynthetic vaccines** contain manmade substances that are very similar to pieces of the virus or bacteria.

Antibody Therapies

When fighting off foreign invaders, our bodies make antibodies specifically produced for the task. A possible therapy for **COVID-19** would be the use of **monoclonal antibodies** specifically engineered to act like coronavirus-fighting immune cells.





Name _____ Class _____ Date _____

Explain How Vaccines Work



VIR

PREVIEW

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What are Antibody Therapies?
