

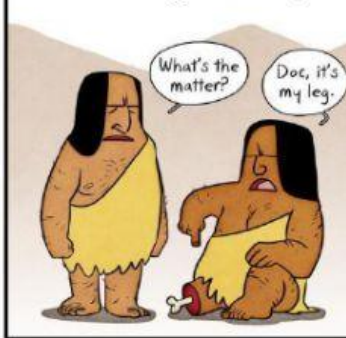
VACCINES WORK

Here Are the Facts

Name: _____

Read the text and complete the exercises

Medical technology has advanced further in the last 100 years than it has throughout history.



...and we owe so much of that to vaccines.



Despite the overwhelming evidence, people still have questions and concerns.



In 1798, smallpox was killing **hundreds of thousands** of people every year.



Until Edward Jenner noticed that milkmaids who had contracted cowpox, a less deadly form of the disease, didn't get smallpox.



This was the first vaccine.



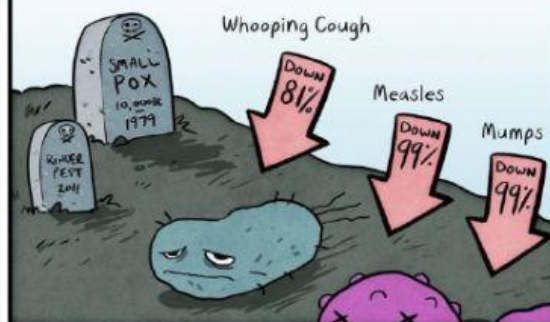
Vaccines are like a training exercise for your body. They use dead or damaged viruses to provoke an immune response, without having to get sick.



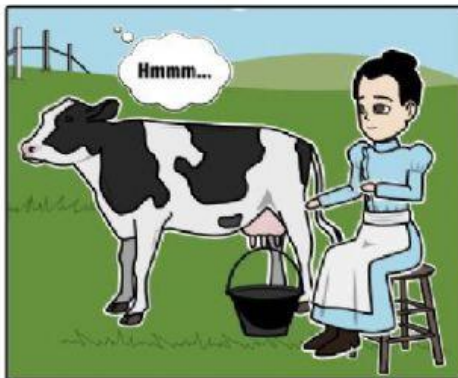
From there, your body has time to develop the proper antibodies and form an immunity.



Since their implementation, smallpox has been eradicated, and diseases like polio, measles, mumps, and rubella are on their way out.



NOW A SHORT HISTORY OF THE FIRST VACCINE



Edward Jenner was a scientist and he wanted to conquer the deadly smallpox. One day, he observed Sarah Nelmes, an ordinary milkmaid who got infected by cow



Noting the common observation that milkmaids were generally immune to smallpox, Jenner suggested that the pus in the blisters that milkmaids received from cowpox protected them from smallpox



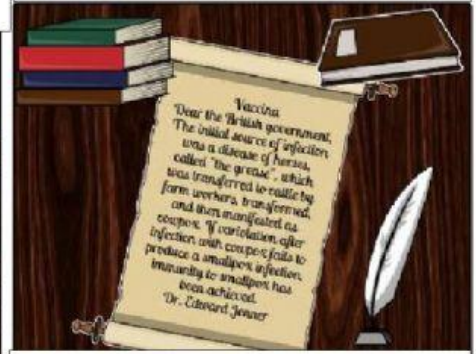
Jenner tested his hypothesis by inoculating James Phipps, and eight-year-old boy. He scraped pus from cowpox blisters on the hands of Sara Nelmes



Jenner inoculated Phipps in both arms that day, subsequently producing in Phipps a fever and some uneasiness, but no full-blown infection



Later, he injected Phipps with variolous material, but no disease followed. The boy was later challenged with variolous material and again showed no sign of infection



Eventually, vaccination was accepted, and in 1840, the British government banned variolation-the use of smallpox to induce immunity-and provided vaccination using cowpox free charge

Time to Check your Understanding

- Read the text again and answer the questions

1. Who invented the first vaccine? _____
2. Who was Sarah Nelmes? _____
3. What did Jenner suggest about the pus in the blisters? _____
4. How did Jenner test his hypothesis? _____

- Complete the next sentences with the ideas from the story boards

1. Medical technology has advanced further in the last _____
2. In 1798, _____ was killing hundreds of thousands of people
3. Vaccines are like a _____ for your body.
4. Vaccines used dead virus to provoke an _____

- Match the words with the definitions. Write the correct number in front of the letters

1. Milkmaid		a) an acute contagious viral disease, with fever and pustules usually leaving permanent scars. It was effectively eradicated through vaccination by 1979.
2. Immunity		b) also called vaccinia, mildly eruptive disease of cows that when transmitted to otherwise healthy humans produces immunity to smallpox.
3. Blister		c) a girl or woman who milks cows or does other work in a dairy.
4. Cowpox		d) a small bubble on the skin filled with serum and caused by friction, burning, or other damage.
5. Smallpox		e) the ability of an organism to resist a particular infection or toxin by the action of specific antibodies or sensitized white blood cells.

- Complete the dialogue with the correct past simple form of the verb in parenthesis

Anita: Hi my friend. Did you get the **Pfizer vaccine** against covid-19 yesterday? (get)

Carina: Hey! No, I _____. I **got** the **AstraZeneca vaccine**.

Anita: That's great, both are good to protect us

Carina: Yes, they are good. What about you? **Did you** _____ (inoculate). **Did it hurt** you?

Anita: Yes, I _____ (be) inoculated and it didn't hurt at all. The nurse _____ (inject) me very gently.

Carina: I'm glad you have got the vaccine already. It is important to be protected.

Anita: Did you _____ (have) any effects after getting the vaccine?

Carina: Yes, I _____. I had a little headache. But, the nurse _____ (suggest) me to take an aspirin if that happens.

Anita: I had a little pain in my arm, so I _____ (not/play) for 2 days.

Carina: I hope you feel fine now.

Anita: Yes, I feel ok. I gotta go. It was nice to see you.

Carina: Take care my friend, see you soon