



The mission of Polk County Public Schools is to provide a high-quality education for all students.

CHAMPS EXPECTATIONS

Conversation: Voice level 0

H Help: Raise your hand for help.

A Activity: Whole group instruction

Movement: It is expected that you will remain in your seat. Please, raise your

hand if you need an EMERGENCY bathroom break.

Participation: I expect everyone to sit up, ask appropriate questions

and raise your hand to answer questions.

Success: Increased knowledge!!

ESSENTIAL QUESTIONS:

What are three communicable and three non-communicable diseases?

What are two parts of the immune system and their function?

What are three ways children can protect themselves from communicable diseases?

Immune System Vocabulary

TYPES OF GERMS

Germs – microscopic organisms which can enter the body and cause illness

Bacteria – one-celled living things that are the most common form of life on earth

Virus – life-like matter that is smaller than bacteria and can only live within other

living cells

OTHER IMMUNE SYSTEM VOCABULARY

Antibiotics – medicine that will kill infections caused by bacteria

Communicable – capable of being spread from one person to another

Immune System – fights germs inside the body

Immunity – protection from getting certain diseases

Infection – invasion of the body by pathogens

Infectious Disease – a disease caused by pathogens

Noncommunicable – not capable of being spread from one person to another

Vaccination/Immunization – medicine which activates the immune system to produce antibodies to fight viruses inside the body



CONTAGIOUS

COMMUNICABLE

COLD, FLU, CHICKENPOX, SICKNESS
STREP THROAT

DISEASE or SICKNESS



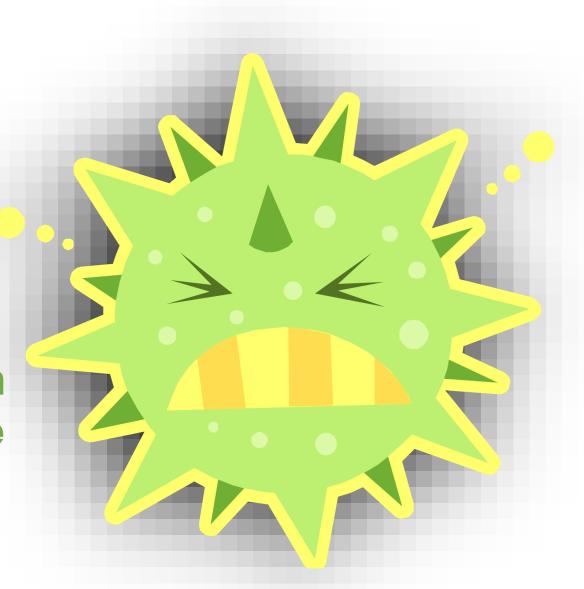
NOT CONTAGIOUS

NONCOMMUNICABLE

ASTHMA, CANCER, DIABETES, HEART DISEASE



Microorganisms that can enter the body and make you sick.



Immune System Vocabulary

TYPES OF GERMS CAUSE DISEASE OR SICKNESS

Germs – microscopic organisms which can enter the body and cause illness

Bacteria – one-celled living things that are the most common form of life on earth

Virus – life-like matter that is smaller than bacteria and can only live within other

living cells

OTHER IMMUNE SYSTEM VOCABULARY

Antibiotics – medicine that will kill infections caused by bacteria

Communicable – capable of being spread from one person to another

Immune System – fights germs inside the body

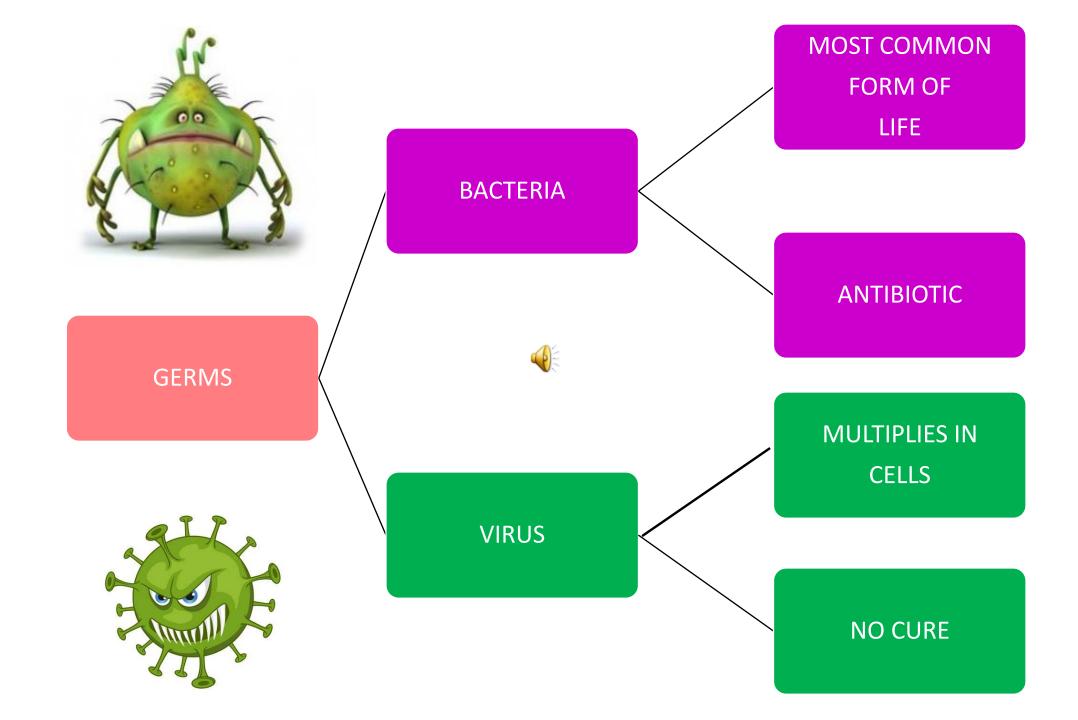
Immunity – protection from getting certain diseases

Infection – invasion of the body by pathogens

Infectious Disease – a disease caused by pathogens

Noncommunicable – not capable of being spread from one person to another

Vaccination/Immunization – medicine which activates the immune system to produce antibodies to fight viruses inside the body











HOW ARE GERMS

SPREAD?











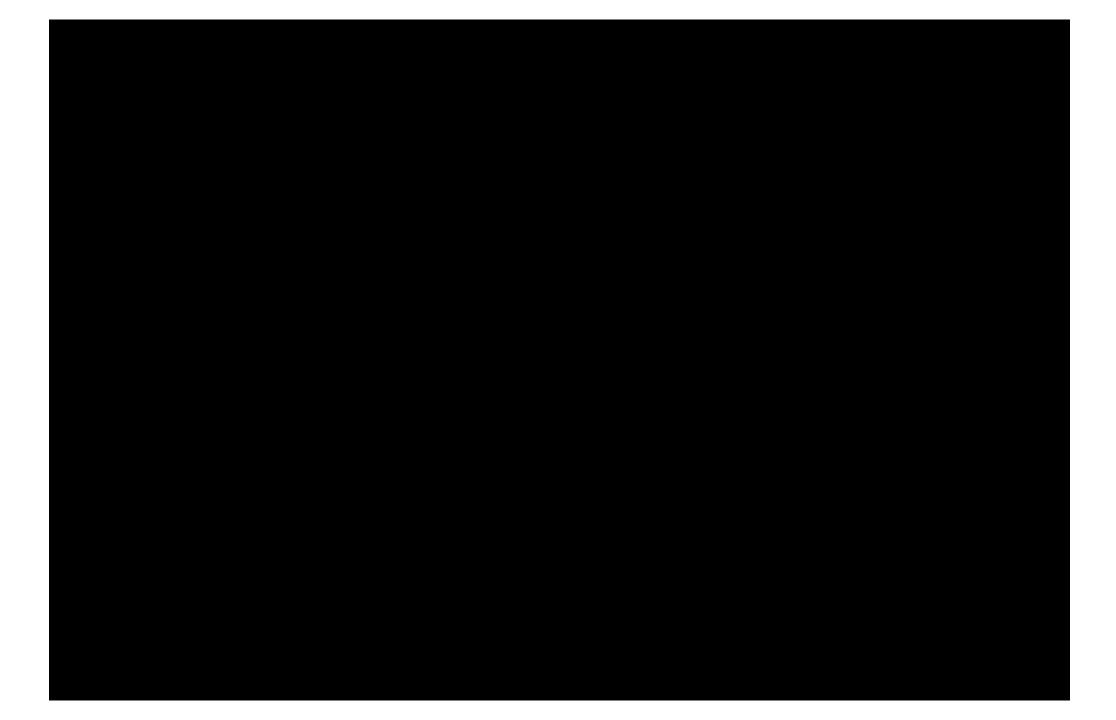


44 Cincinnati TA Children's

WHAT DO GERMS FEAR?



SOAP AND WATER



Immune System Vocabulary

FIRST LINE OF DEFENSE KEEPS GERMS OUT

Cilia – tiny hairs that line the nose, ears, and lungs and filter out dust and germs

Cough/Sneeze – helps the body get rid of germs

Mucus – sticky substance that traps germs

Mucous membrane – lining of the body openings

Skin – when unbroken, it acts as a barrier

Stomach Acids – liquids found in the stomach which help digest food and kill germs

Tears – liquid made by the eyes which washes them and protects them from germs

Wax in Ears – helps trap germs

SECOND LINE OF DEFENSE KILLS GERMS

Antibodies – substances that attach themselves to germs and kill them—there are different antibodies for each germ that enters the body.

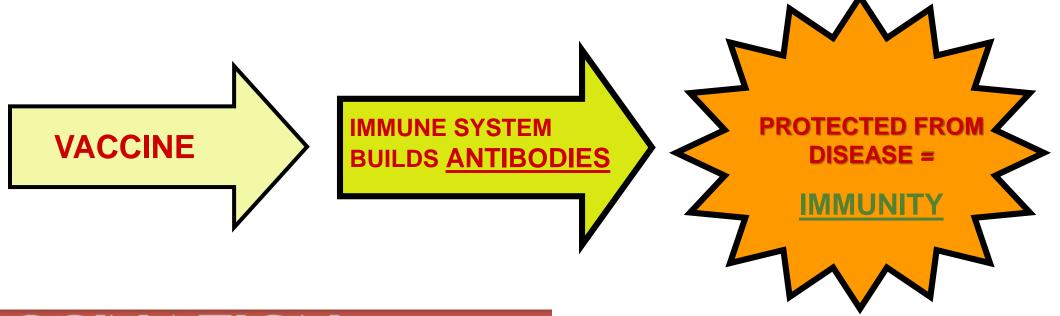
B-Cells – white blood cells that team up with T-Cells to make antibodies

Helper T-Cells – white blood cells that team up with B-Cells to make antibodies

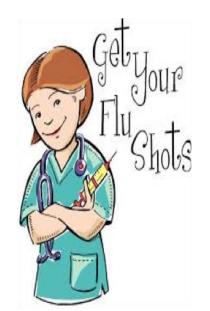
Killer T-Cells – white blood cells that help destroy viruses

Macrophages – white blood cells that eat germs and dead matter

White Blood Cells – cells that surround and destroy germs









Thanks to vaccines, children are protected from these diseases:



- Chickenpox
- Diphtheria
- Flu
- Hepatitis A and B
- HIB (Haemophilus Influenzae)
- HBV (Human Papilloma Virus)
- Measles

- Meningococcal Disease
- Mumps
- Polio
- Pneumococcal Disease
- Rotavirus
- Rubella
- Tetanus
- Pertussis (Whooping cough)

How can you protect yourself from Communicable Diseases?









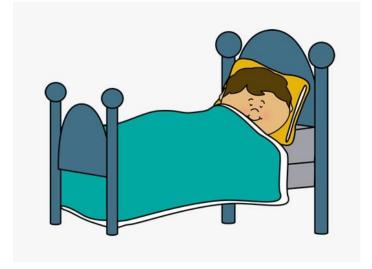














Cover Coughs and Sneezes





Disease: Prevention and Control

| On th | he line to the left, write the letter of the best choice to complete the | statement. |
|----------|--|------------|
| Α | _ 1. The most common forms of life on earth are | _• |
| | (a) bacteria (b) viruses (c) antibodies (d) people | |
| C | _ 2 can only grow within other living cells. | |
| | (a) bacteria (b) germs (c) viruses (d) antibodies | |
| С | _ 3. Substances in the blood that fight germs are | |
| • | (a) bacteria (b) viruses (c) antibodies (d) germs | |
| С | 4. Antibodies are produced in the (a) brain (b) stomach (c) blood (d) pituitary gland | |
| _ | | |
| <u> </u> | _ 5. A vaccine causes your body to make | |
| | (a) antibodies (b) bacteria (c) viruses (d) germs | |
| С | _ 6. Being immune to something means to be | |
| ٨ | (a) sick (b) injured (c) protected (d) healthy | |
| A | 7. Diseases that are passed from one person to another are called | |
| _ | (a) communicable (b) antibodies (c) noncommunicable (| d) public |
| Α | | J. |
| D | (a) a disease (b) a bacteria (c) viruses (d) immunity | |
| D | 9. A sticky liquid that lines the nose and throat is | |
| _ | (a) villi (b) skin (c) hair (d) mucus | |
| B | _10. A healthy body can germs better than an unhealthy body. | |
| | (a) catch (b) fight (c) attract (d) spread | |

Can you answer the following questions?

What are three communicable and three non-communicable diseases?

What are two parts of the immune system and their function?

What are three ways children can protect themselves from communicable diseases?