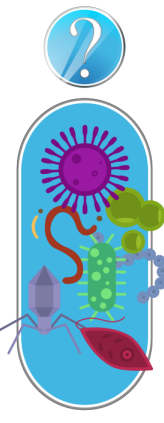


COMPLEXITY

Question Card Examples



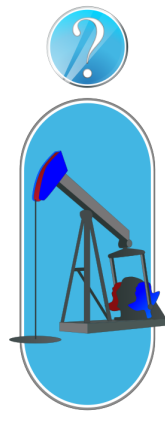
1

Which is more: the number of your body cells or the number of microscopic bugs that you host?

2

Which system is the interface between your body and your host of microbes?

- Endocrine
- Immune
- Integumentary




1

Your heart, an electrical pump, is a little larger than your fist. Does it have 2, 3, or 4 chambers?

2

Blood flows from the right atrium to the right ventricle, and then to the

- lungs
- brain
- body



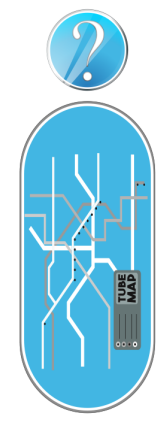
1

When food reaches the stomach, it mixes with

- gastric juice
- chyle
- bile

2

Do parietal or goblet cells secrete the thick coat of mucus that protects the lining of your stomach?



1


The lymphatic system is a vast set of drainage pipes for many things, except

- blood
- fluid from between cells
- white blood cells

2

What will happen with your body fluids when your lymphatic system is not working properly?

- It will back up and cause swelling
- Nothing
- Your veins will maintain the balance



1

Your thymus is the training facility for specialized bodyguards to

- learn to recognize invaders
- grow strong
- be tried and tested

2

Your thymus closes down after puberty. Where do the guard cells train now?

- Bone marrow
- Lymph nodes
- No training necessary

ANSWERS

- 1 a. For 3 weeks the T-cells train to become either helpers or regulators, killer, or memory cells who can recognize specific invaders.
- 2 c. At this stage, mature T-lymphocytes ("T" for Thymus) only divide to keep the numbers up. (B-cells continue to multiply and mature (train) in the bone marrow, spleen, and lymph nodes.)

If you knew (or guessed) the answer, you may claim the thymus gland (E3) or 1,000 Cal. If wrong, pay 500 Cal to E3.

COMPLEXITY

Consequence Card Examples



Stand next to your chair, raise one foot off the floor, and close your eyes. If you can stand for 10 seconds without touching the chair, you earn a health chip. This is Romberg's test for proprioception.



Your friend found a wild bee nest and called you to help harvest the honey. When you saw the grayish, oval, football-sized nest, you realized it is a dangerous wasp colony. Every castaway must pay you a coin for saving the day.



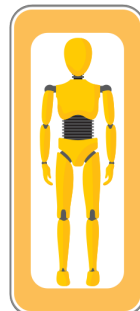
Fresh, colorful fruit are loaded with vitamins, minerals, phytonutrients, and fiber that boost your health. If you have eaten fresh fruit today you earn a health chip.



As you explored a shallow coral reef in search of dinner, you recognized the fire coral and avoided it. You saved your skin from painful stings. Unless it is in a locked set somewhere, you may claim the Skin (Int) banner.



You cut your foot on a sharp rock and neglected to clean the wound. It became infected. Pay the lymph nodes (IL1) 500 Cal to send a squad to fight the infection.



Your skin makes enough vitamin D now that you spend more time in the sun. Vitamin D enables calcium absorption for your bones. You may claim either a health chip or the skeleton (S), if it is not locked.