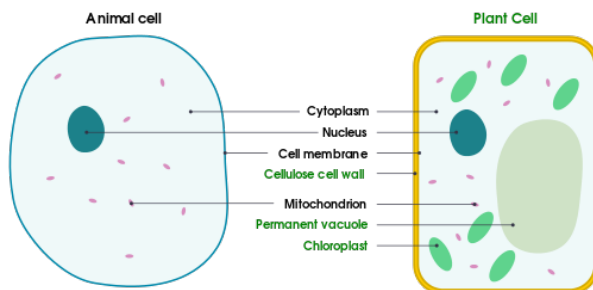




Your teacher will tell you which topic you should revise. Read and learn all the information in the topic, ready for a Quiz in lesson.

Topic 1: Systems in the human body

MUSCULO-SKELETAL SYSTEM	This is where blood is transported around the body. It includes the heart that pumps the blood.	
EXCRETORY SYSTEM	This is where food is broken down and digested. It is then absorbed into the bloodstream.	
DIGESTIVE SYSTEM	This is how the body removes waste. It is filtered from the blood by the kidneys and passes out as urine.	
NERVOUS SYSTEM	This is where air enters the lungs and oxygen is taken in while carbon dioxide is removed as we breathe out.	
CIRCULATORY SYSTEM	This includes bones and joints and has muscles attached to allow us to move.	
REPRODUCTIVE SYSTEM	This is how we produce young. Females produce eggs and males produce sperm to fertilise the egg.	
RESPIRATORY SYSTEM	This includes the brain and nerves in our body that lets us sense things and react to them.	
ENDOCRINE SYSTEM	This system releases special chemicals called hormones. They help control the body in many ways.	



CELLS

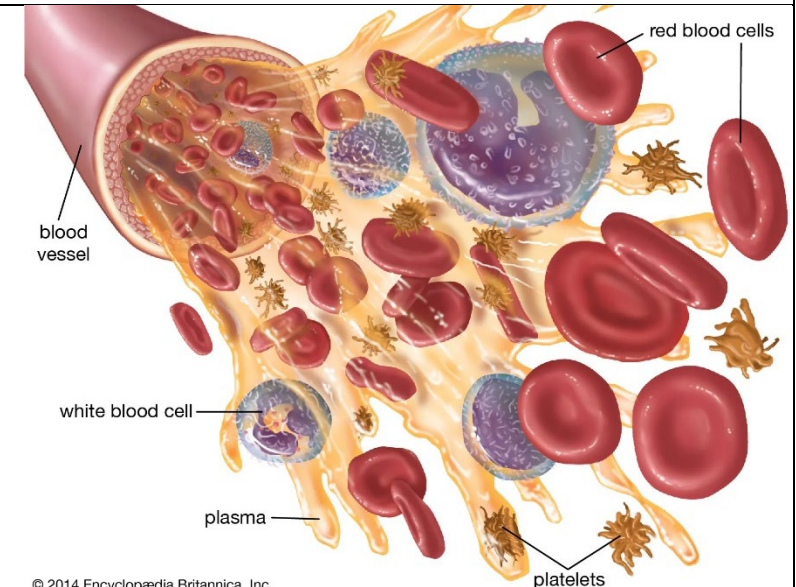
- Nucleus – controls the activities of the cells and contains the genetic material.
- Cytoplasm – where most chemical activities take place.
- Cell membrane – controls the passage of substances in and out of cells.

SYSTEMS

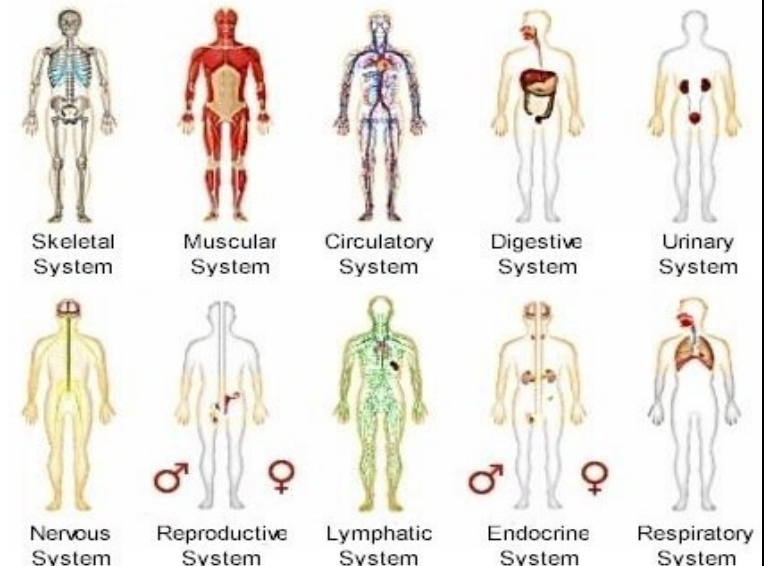
- Tissue – a group of cells with a similar structure and function.
- Organ – groups (aggregations) of tissues performing similar functions.
- Organ systems – organs which work together.

BLOOD CELLS

- Red blood cell – carry oxygen from the lungs to the body.
- White blood cell – Fight infections and create antibodies to protect us.
- Plasma – helps you recover from injury, carries nutrients, hormones and removes waste products to prevent infection.
- Platelets – Aids blood clotting.



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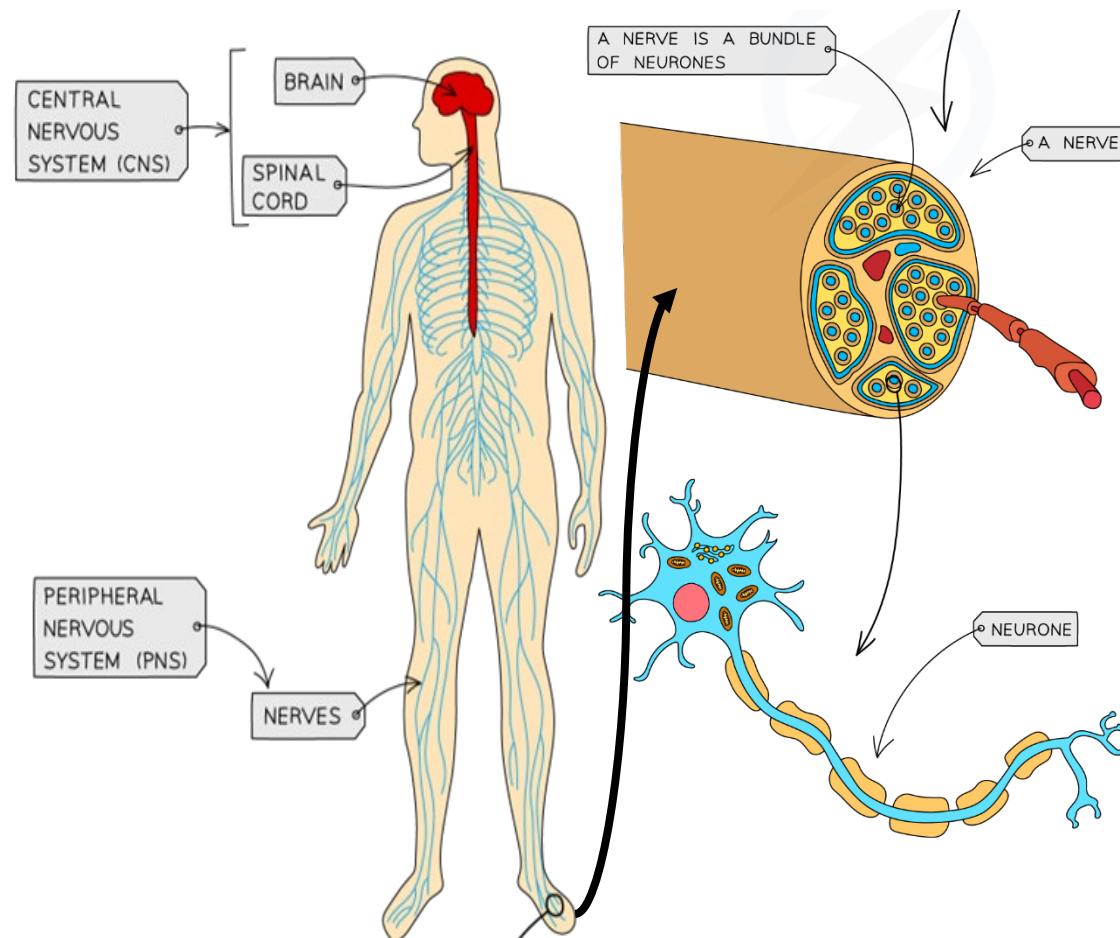
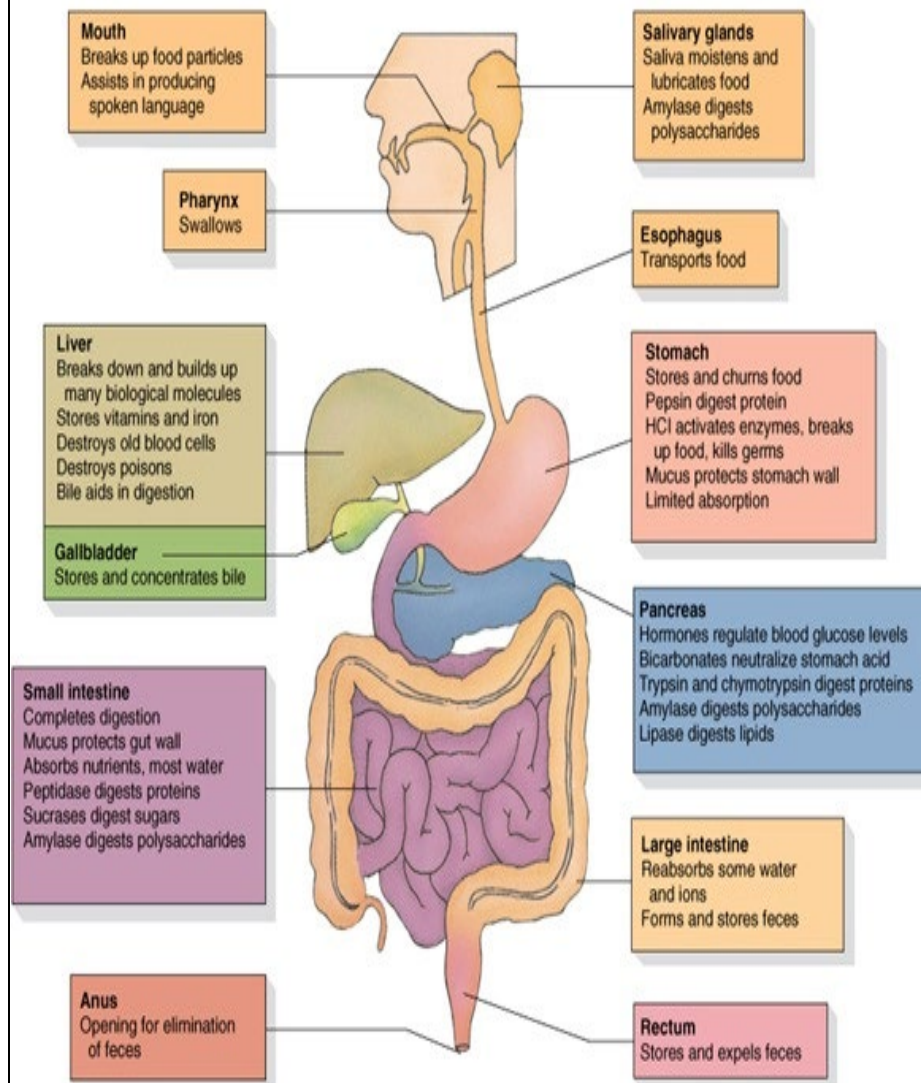
Science – Alternative curriculum

The Human Body

Year - 9
Term 1

Your teacher will tell you which topic you should revise. Read and learn all the information in the topic, ready for a Quiz in lesson.

Topic 2: The human digestive and nervous system



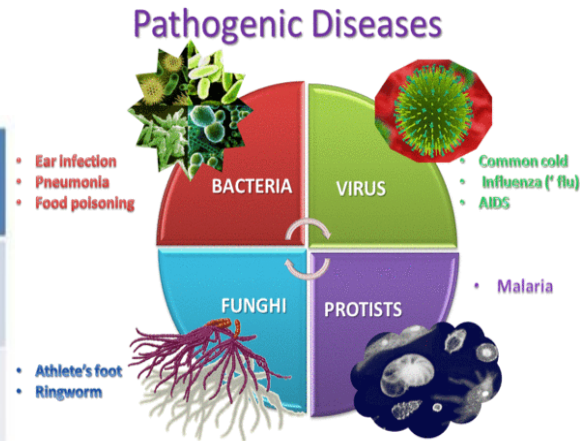


Your teacher will tell you which topic you should revise. Read and learn all the information in the topic, ready for a Quiz in lesson.

Topic 3: Breathing and Respiration, Infectious disease and lifestyle choice

Breathing and Respiration are not the same thing!!

	Breathing	Respiration
1.	Intake of fresh air and removal of foul air	Oxidation of food to form carbon dioxide, water and energy
2.	Physical process	Biochemical process
3.	No energy is released rather used	Energy is released in the form of ATP
4.	Extra cellular process	Intra cellular process
5.	No enzymes involved	Large no of enzymes are involved
6.	Confined to certain organs	Occurs in all the cells of the body



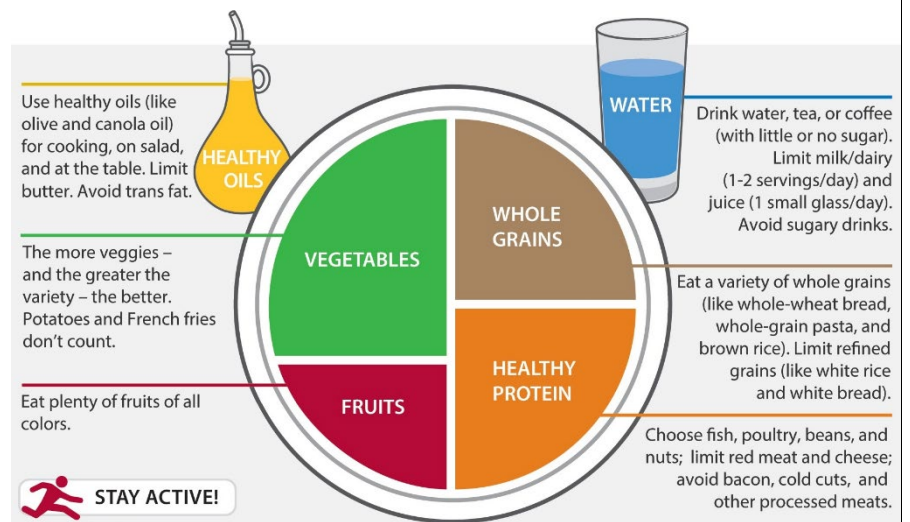
A variety of microorganisms can cause disease.

Pathogenic organisms are of five main types:

1. **Viruses**
2. **Bacteria**
3. **Fungi**
4. **Protozoa**
5. **Worms**



HEALTHY EATING PLATE





Vocabulary	Wider Research	Apply
<ol style="list-style-type: none">1. Animal2. Plant3. Cell4. Nucleus5. Cell membrane6. Genetic7. Cytoplasm8. Specialised9. Function10. Adapt11. Tissue12. Organ13. System14. Circulatory15. Heart16. Blood17. Components18. Transport19. Oxygen20. Carbon Dioxide21. Digestion22. Enzymes23. Breathing24. Respiration25. Energy Release26. Exercise27. Diet28. Lifestyle29. Diabetes30. Infectious31. Disease32. Pathogen	<p>Youtube</p> <p>Lifestyle and Health https://www.bbc.co.uk/bitesize/guides/zy2797h/revision/1</p> <p>Blood components https://www.bbc.co.uk/bitesize/guides/zwvfxfr/revision/8</p> <p>Respiration https://www.bbc.co.uk/bitesize/topics/zvrrd2p/articles/zdqx2v4</p> <p>Cells to systems https://www.bbc.co.uk/bitesize/guides/z9hyvcw/revision/6</p>	<ol style="list-style-type: none">1. Draw/label specialised animal cells showing their specific features and what they are used for.2. Label a simple diagram of an animal cell.3. Draw/label diagrams of blood cells and create a table of their functions.4. Create a digestive system word search5. Brainstorm energy-giving foods in day-to-day diet.6. Discuss how being under or overweight can affect a human's health.7. Watch BBC video clip on microorganisms - list the pathogens.