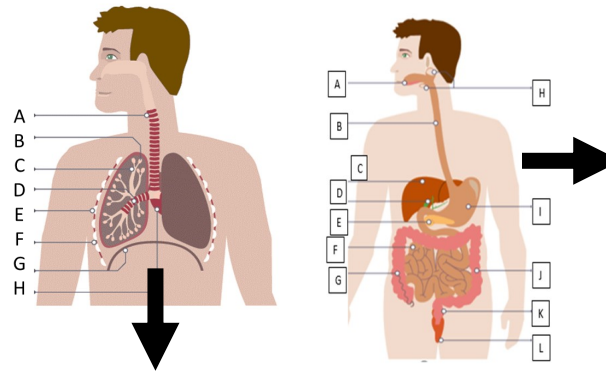


# Year 7 The Body Knowledge Organiser

## 1. Key Vocabulary

Respiration	Chemical reaction inside all living cells that releases energy
Respiratory system	Organs in the body that enable us to get oxygen into the blood and remove carbon dioxide.
Inhalation	Breath in
Exhalation	Breath out
Gas exchange	Moving oxygen from air into our blood and carbon dioxide in our blood into the air.
Alveoli	Tiny air sacs in the lungs that increase the surface area for gaseous exchange
Diaphragm	Contracts to draw air into the lungs.
Arteries	Blood vessels that carry oxygenated blood away from the heart.
Veins	Blood vessels that carry deoxygenated blood towards the heart
Diffusion	The spreading out of particles from an area of high concentration to an area of low concentration.
DNA	Complex chemical that carries genetic information

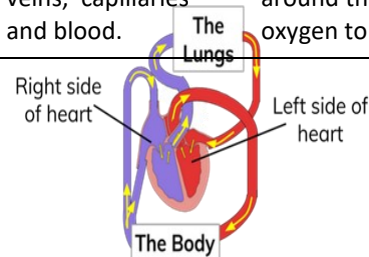


## 2. Respiratory System

- A Trachea
- B Alveoli
- C Bronchiole
- D Right bronchus
- E Ribs
- F Intercostal muscles
- G Diaphragm
- H Heart

## 3. The circulatory system

Made up of the heart, arteries, veins, capillaries and blood. The heart is a pump that ensures blood travels around the body carrying oxygen to all tissues



## 4. The digestive system

A	<b>Mouth:</b> mechanical breakdown/chew food
B	<b>Oesophagus (gullet):</b> push chewed food to stomach
C	<b>Liver:</b> make digestive juices
D	<b>Gall Bladder:</b> make bile which breaks down fats (lipids)
E	<b>Pancreas:</b> production of digestive enzymes
F	<b>Small Intestine:</b> absorption of small soluble particles
G	<b>Appendix:</b> useless organ which harbours bacteria
H	<b>Salivary Glands:</b> produce saliva with enzymes to breakdown starch
I	<b>Stomach:</b> Partial digestion of food/mechanically churns food with HCl and enzymes
J	<b>Large Intestine:</b> re-absorption of water/faeces
K	<b>Rectum:</b> muscular section of the large intestines where faeces is produced
L	<b>Anus:</b> where faeces leaves the body

## 5. The skeleton

- 1. Protection**  
The cranium protects the soft tissue of the brain.
- 2. Movement**  
The vertebrae allow us to bend, stretch and rotate our body.
- 3. Blood Production**  
Red blood cells are made in the ribs and limb bones.
- 4. Support**  
The bones of the legs support the body.
- 5. Support**  
The vertebrae support the head.
- 6. Protection**  
The rib cage protects the delicate heart and lungs.
- 7. Movement**  
The bones and joints work with muscles to enable us to walk, run and sprint.