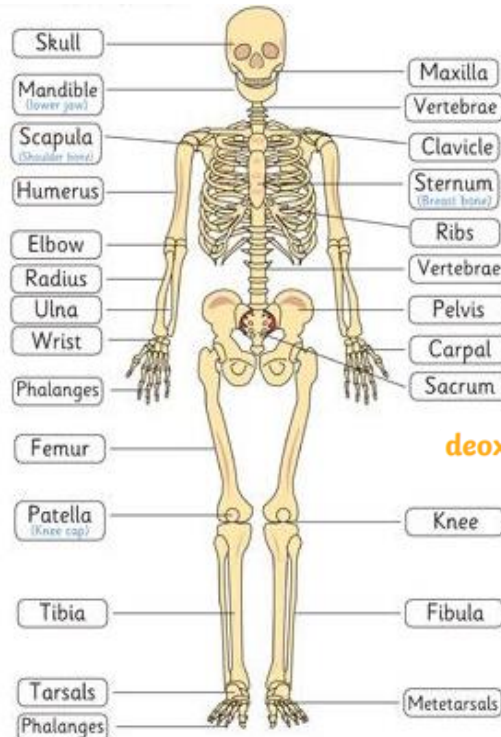


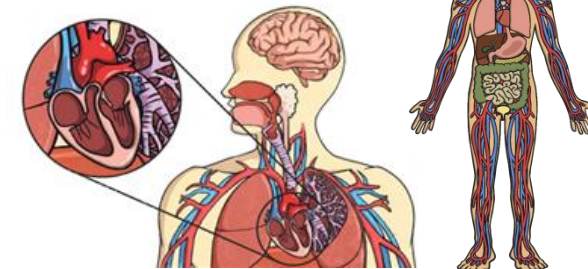
Knowledge Organiser Year 6 Science: Animals and humans

Concept: Living things (cells)

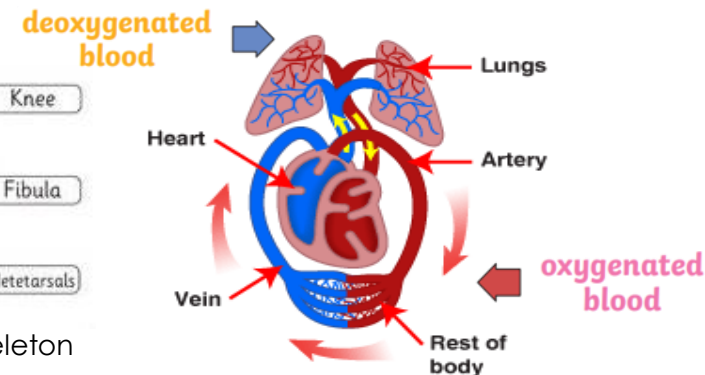
Key Vocabulary	Things we already know
circulatory system	the system responsible for circulating blood through the body, that supplies nutrients and oxygen to the body and removes waster products such as carbon dioxide
blood vessels	the narrow tubes through which your blood flows - <i>arteries, veins and capillaries are blood vessels</i>
capillaries	tiny blood vessels in your body
veins	a tube in your body that carries deoxygenated blood to your heart from the rest of your body
arteries	a tube in your body that carries oxygenated blood from your heart to the rest of your body
oxygenated	blood that contains oxygen
deoxygenated	blood that does not contain oxygen
respiration	process of respiring, breathing, inhaling and exhaling air
heart	the organ in your chest that pumps the blood around your body
lungs	two organs inside your chest which fill with air when you breathe in - <i>they oxygenate the blood and remove carbon dioxide from it</i>
nutrients	substances that helps plants and animals grow
organ	a part of your body that had a particular purpose



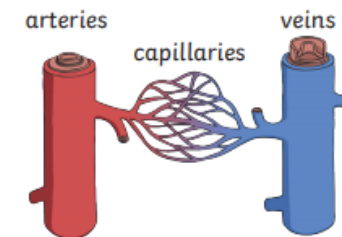
^ The bones in a human skeleton



The heart pumps blood to the lungs to get oxygen. It then pumps this **oxygenated** blood around the body. We call this the **circulatory system**.



The blood that comes from the body is **deoxygenated** and the blood that comes from the lungs is **oxygenated**.



Capillaries are the smallest **blood vessels** in the body and it is here that the exchange of water, nutrients, oxygen and carbon dioxide takes place.

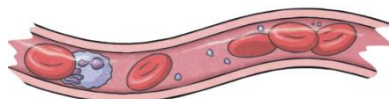
The human body needs a constant supply of blood to keep working.

As we exercise, our muscles need more **oxygen**. We breathe quicker so our lungs can take in more oxygen. Our heart rate increases to pump more blood to the active muscles.



Our blood transports:

- gases (mostly oxygen and carbon dioxide)
- **nutrients** (including water)
- waste products



The human digestive system >

