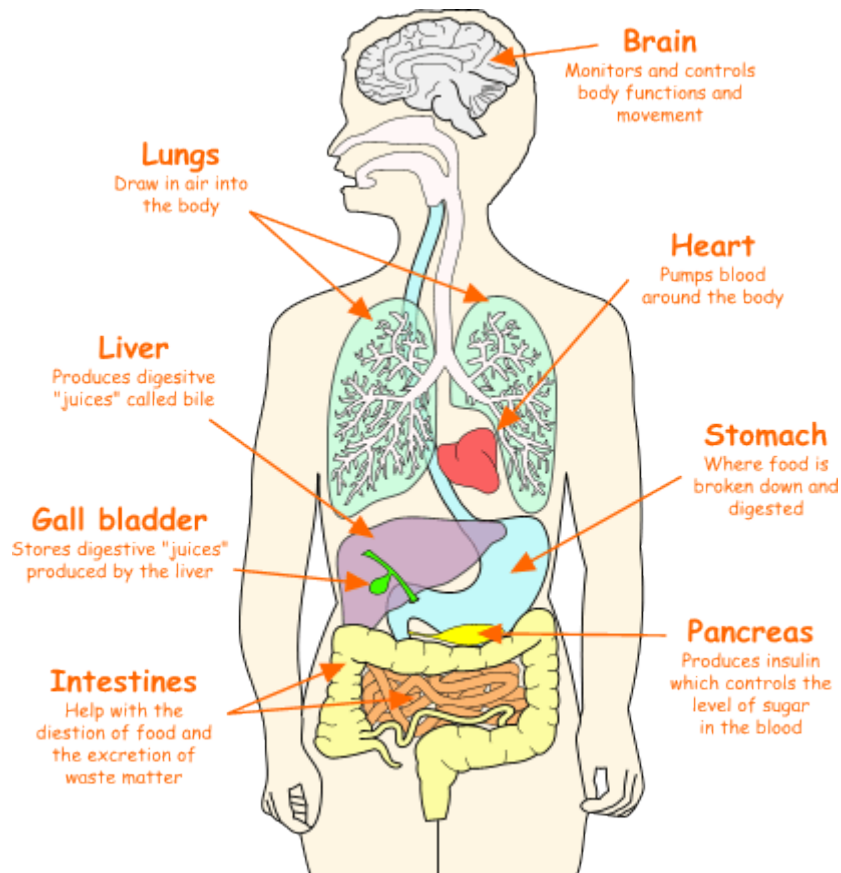


## Key Stage 4 Science home learning term 3 week 1

Our topic this term is the human body.



LO: To understand:

- 1: Living bodies
- 2: What are our key body systems?
- 3: What do cells look like?
- 4: Why is our body so complicated?

Most human cells are like most other animal cells and have the following parts:

- Nucleus - controls the activities of the cells and contains the genetic material
- Cytoplasm - where most chemical reactions take place

- Cell membrane - controls the passage of substances in and out of cells
- Cells may be specialised to carry out a particular function e.g sperm cells, nerve cells and muscle cells inside the body.
- A tissue is a group of cells with a similar structure and function.

Organs are collections of tissues performing similar functions.

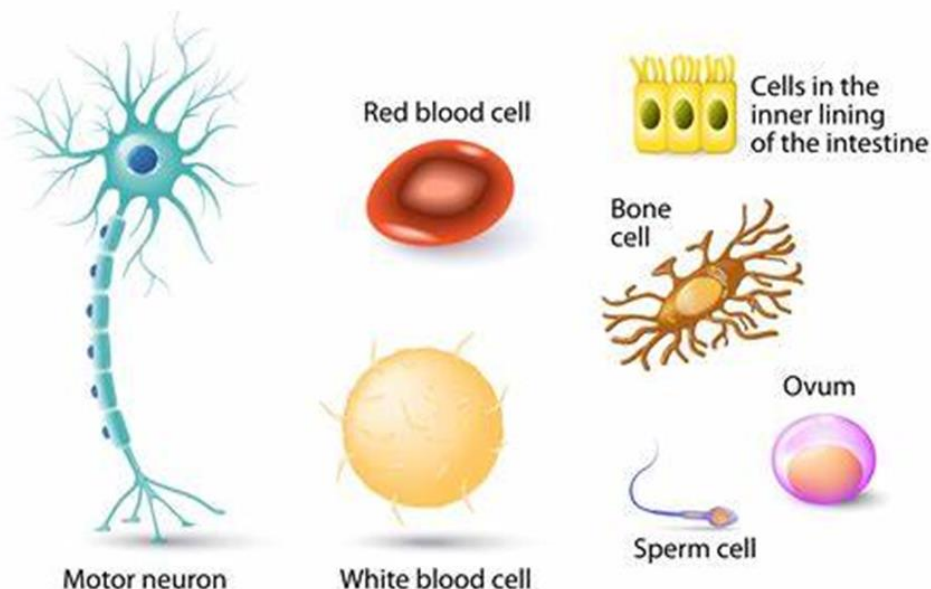
Organs are organised into organ systems, which work together.

'Tissue' as a group of cells of the same type working together and 'organ' as a group of tissues of the same type doing the same job.

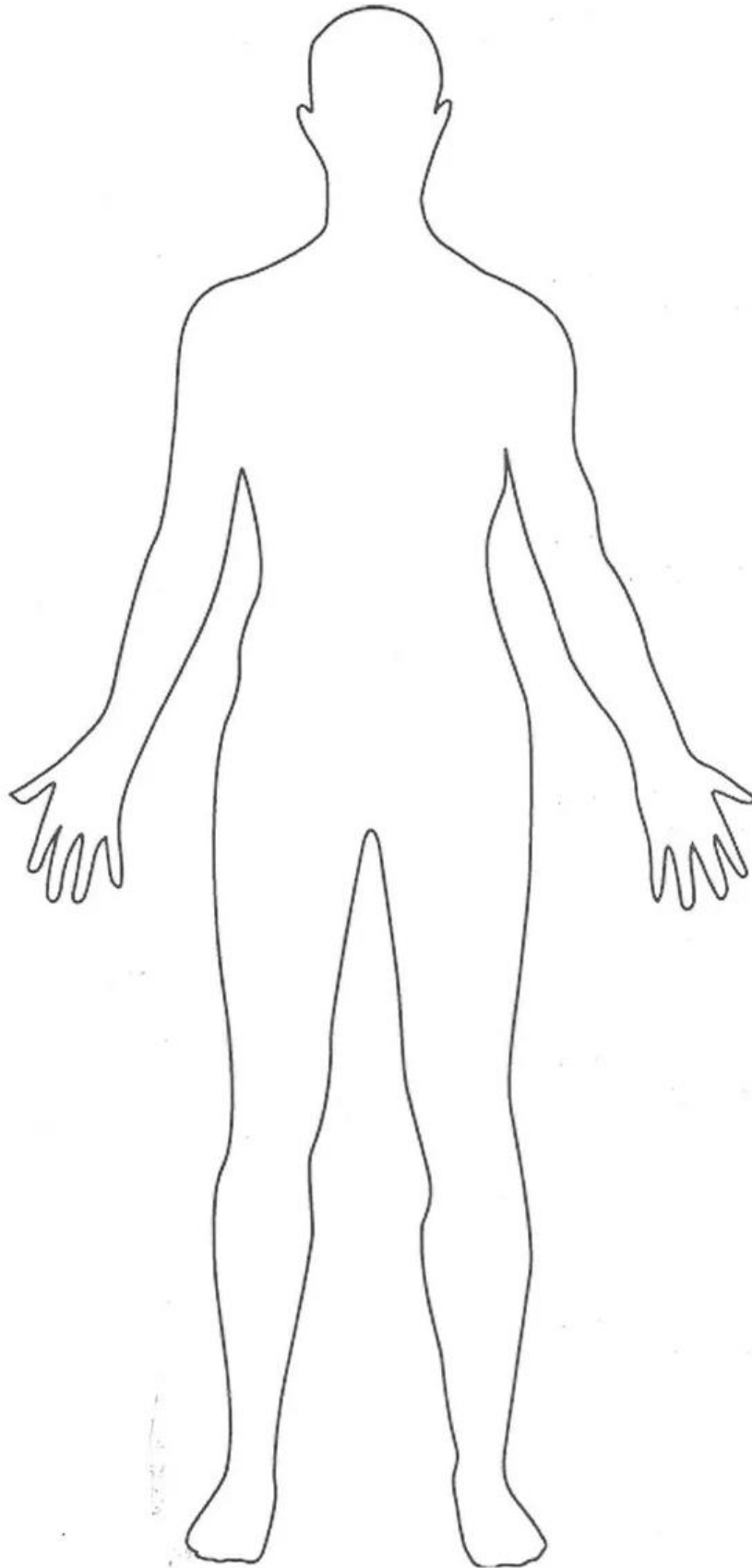
The difference between living and dead and relates the characteristics of living things to visible objects - in particular, body parts.

Cells can be specialised to do the jobs they need to do and what goes wrong when these cells start to malfunction, cancer is a specific example.

## Human cell



Complete this blank template illustrating the major organs of the body and labelling them.



Watch this video clip about cells (some of the language is complicated so only watch 1:09 seconds)

[Biology: Cell Structure I Nucleus Medical Media - YouTube](#)

Now watch this video clip. Biology: Cell Structure I Nucleus Medical Media - YouTube

Levels of organisation - cells, tissue, organs -

<https://www.youtube.com/watch?v=ZRFykdf4kDc>

You can email your completed work to me via [office@ifield.kent.sch.uk](mailto:office@ifield.kent.sch.uk) so that I can mark your work and support you. I am very happy to answer any questions or just let me know how you are getting along.

Keep safe and well

Mrs Hargood 😊