#### A balanced diet

A balanced diet supplies all essential needs. If body is missing one or more components it is said to be malnourished. Energy requirements depend on age, sex, pregnancy and activity levels.

Carbohydrates-provide energy (bread)

Lipids-energy and insulation (oily fish)

Proteins-growth, repair and energy (meat, fish)

Fibre-healthy digestive system (beans):

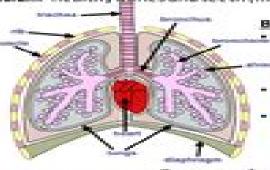
Vit A-improves vision (liver)

Vit C- prevents scurvy (oranges)

Vit D- for calcium absorption (eggs)

iron- makes haemoglobin in the blood (red meat)

calcium- healthy bones and teeth (milk)



# Breathing in:

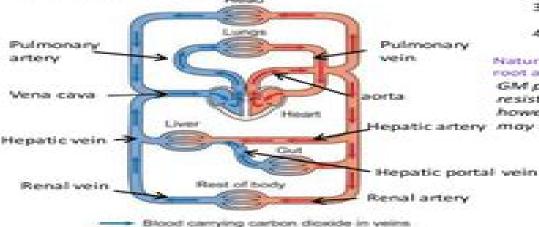
muscles and diaphram contract

Thorax volume increases

Priessure decreases which draws air in

#### Dangers of smoking

- Tar damages cell walls- reduces SA for gas exchange
- Tar damages cilia can't keep trachea clean-chest infections
- Tar imitates bronchi- encourages production of mucus which cilia cant remove=smoker cough
- Tobacco contains carcinogens- chemical which cause cancer
- Carbon monoxide reduces capacity of haemoglobin in blood to carry oxygen round the body- increased heart rate and blood pressure-damaged artery walls, more blood clots, coronary heart disease



Blood carrying oxygen in arteries.



#### Cloning in animals

- Take the nucleus out of an egg cell to make an enucleated cell
- Take the nucleus out of the adult body cell to make a diploid nucleus
- Insert nucleus into celli
- Fuse with an electric shock and this stimulated mitosis
- Implant into uterus of another sheep (surrogate mother)

Pres	Cons
Animals with suitable organs for transplants can be cloned	New science with possible unknown consequences
Useful genetic characteristics are always passed on	Expensive and time consuming
Farmers don't have to wait until breeding season	Embryos formed may not develop normally

#### Cloning in plants (micropropagnation)

- Take explants.
- 2. Sterilise to kill microorganisms
- Grow in vitro (petri dishes containing nutrient medium)
- Explant divide and grow into small plants, which are then planted like normal plants

Naturally: Parent plant sends out runners which takes root at various points and new plants grow

GM plants can improve food production as are resistant to insects or herbicides that kill weeds, however weeds may become resistant too, they Hepatic artery may affect food chains and human health

Artery	multi beres
Melin:	this soull targe fasters water
Capitary	small cost made (Trick)

# **Igcse Biology Revision Notes**

**Dawson** 

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