# Cheatography

Food in th	e body			Digestiv
Name	Uses		Found in	
Water	Regulates Distrib. Removes	temp. nutrients. waste products.	Fruit Vegetables Dairy	5
Fibre	Adds to Prevents	bulk faeces. consti- pation	Plants	
Carbs	Provides Stores	energy. energy.	Grains	
Lipids	Provides Produces Digests	energy. hormones. and absorbs foods	Dairy Animal Products	Response Blood is
Protein	Building muscles, skin, hair and	bones, cartilage, blood nails	Meat	<ul> <li>Transp dioxide)</li> <li>Transp</li> <li>Transp</li> <li>Transp</li> </ul>
Vitamins	Depends	on the	vitamin	Deliver
Minerals	Building bones Transmi nerve	strong as well as tting impulses	minerals	Transp     Respirat

## e Juices

Science - Staying Alive Cheat Sheet

Bile	0.8L
Saliva	1L
Pancreas Juices	1.3L
Stomach Juices	2 21
	2.3L
Small Intestine Juices	2.6L

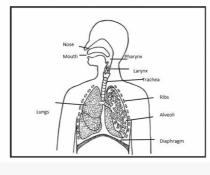
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## sibilities of blood

responsible for:

- porting gases (Oxygen, Carbon
- porting water
- oorting Nutrients
- oorting Wastes
- ring immune cells to fight disease
- porting heat

### tory System



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## Obesity

- Diseases associated with obesity
- · High blood pressure
- Atherosclerosis
- Cardiovascular disease
- Stroke
- Some cancers
- Breast
- Endometrial
- Colon
- Type 2 diabetes

The recommended daily intake of kilo-joules for an adult - 8700

- Factors that increase the risk of obesity:
- Genetics (Obese parentage)
- Eating more kilojoules than you use
- Inactivity (Exercise)
- Modern living (Cars, computers)
- Socioeconomic factors (Money and Education)

## Cellular respiration

Cellular respiration is the process of taking in oxygen to produce energy, water and carbon dioxide.

The role of the circulatory system is to carry oxygen to tissues, wastes away from tissues and nutrients water and heat around the body.



Enzymes

chemical reactions.

smaller sugars.

acids.

glycerol.

## By miacate03

Enzymes are chemicals that speed up

- Protease - breaks protein into amino

- Lipase - breaks fat into fatty acids and

- Carbohydrase - breaks carbohydrate into

cheatography.com/miacate03/

# Cheatography

## Science - Staying Alive Cheat Sheet by miacateo3 via cheatography.com/36759/cs/11714/

## Blood in the heart

From the body	
Superior/Inferior Vena Cava	
Right Atrium	
Right Ventricle	
Pulmonary Artery	
Lungs	
Carbon Dioxide out/Oxygen in	
Pulmonary Veins	
Left Atrium	
Left Ventricle	
Aorta	
To the Body	

What is in our breath			
Gas	% in inhaled air	% in exhaled air	Difference
Nitrogen	78	78.5	+0.5
Oxygen	21	14	-7
Carbon Dioxide	<1	5.6	+5.5
Water Vapour	Varying	100	100

### Inhalation and Exhalation

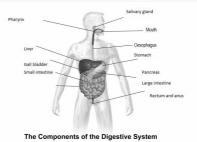
Inhalation. Ribcage moves outward and the lungs expand, Air moves in, Diaphragm moves down, volume of chest cavity increases, intercostal muscles contract, decreases pressure in chest cavity.

## Inhalation and Exhalation (cont)

Exhalation, ribcage moves inward and the lungs contract, air moves out, diaphragm moves up, volume of chest cavity decreases, intercostal muscles expand, increases pressure in chest cavity. Breathing out is called relaxing, breathing in is called contracting.

Food testing			
Component	Descri- ption	Reagent	Positive Result
Sugar	Add 10 drops reagent 80 <sup>o</sup> c for 5 min	Benedicts Solution	Cloudy red
Starch	Add 3 drops reagent	lodine	Purple- Black with residue
Protein	Add 10 drops NaOH And 10 drops CaSo4	Biurets (NaOH + CaSo4)	Change in colour
Fat	Rub sample on brown paper	Brown Paper	Sinks into paper

## **Digestive System**

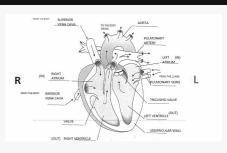


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Components of cells

Components c	or cens		
Components	Descri- ption	Function	Amou
White blood cells	Invisible unless stained	Immune cells	1%
Red blood cells	1/4 size of white blood cell	Carry oxygen around the body,	44%
Plasma	Liquid portion of blood	Where carbon dioxide is dissolved.	54%
Platelets	Cell fragment	Help clot the blood	1%

## Heart



## Breathing

In the lungs, oxygen travels to thousands of tiny air sacs called alveoli. These are covered in capillaries, The increased surface area-because of these tiny air sacs- paired with thin walls, increase the rate of gas diffusion into/from the capillaries

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