

Skeletal System



Muscular System

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***AMAZING FACTS ABOUT THE HUMAN BODY***

**The Skeletal System**

- The largest bone is the pelvis, or hip bone. In fact it is made of six bones joined firmly

together.

- The longest bone is the 'femur', in the thigh. It makes up almost one quarter of the body's total

height.

- The smallest bone is the 'stirrup', deep in the ear. It is hardly larger than a grain of rice.

- The ears and end of the nose do not have bones inside them. Their inner supports are

cartilage or 'gristle', which is lighter and more flexible than bone. This is why the nose and

ears can be bent.

- After death, cartilage rots faster than bone. This is why the skulls of skeletons have no nose or

ears.

**The Muscular System**

- There are about 60 muscles in the face. Smiling is easier than frowning. It takes 20 muscles to

smile and over 40 to frown.

- The longest muscle in the body is the *sartorius*, from the outside of the hip, down and across

to the inside of the knee. It rotates the thigh outwards and bends the knee.

- The smallest muscle in the body is the *stapedius*, deep in the ear. It is only 5mm long and

thinner than cotton thread. It is involved in hearing.

- The biggest muscle in the body is the *gluteus maximus*, in the buttock. It pulls the leg

backwards powerfully for walking, running and climbing steps.

**The Circulatory System**

- The heart beats around 3 billion times in the average person's life.

- About 2 million blood cells die in the human body every second, and the same number are

born each second.

- Within a tiny droplet of blood, there are some 5 million red blood cells, 300,000 platelets and

10,000 white cells.

- It takes about 1 minute for a red blood cell to circle the whole body.

- Red blood cells make approximately 250,000 round trips of the body before returning to the

bone marrow, where they were born, to die.

- Red blood cells may live for about 4 months circulating throughout the body, feeding the 60

trillion other body cells.

**The Nervous System**

- The brain looks like a giant, wrinkled walnut.

- Unlike other body cells, brain cells can not regenerate. Once brain cells are damaged they are

not replaced.

- The brain and spinal cord are surrounded and protected by cerebrospinal fluid.

**The Immune System**

- The skin secretes antibacterial substances. These substances explain why you don't wake up

in the morning with a layer of mold growing on your skin - most bacteria and spores that land

on the skin die quickly.

- Tears and mucus contain an enzyme (lysozyme) that breaks down the cell wall of many

bacteria.

- Lymph nodes contain filtering tissue and a large number of lymph cells. When fighting certain

bacterial infections, the lymph nodes swell with bacteria and the cells fighting the bacteria, to

the point where you can actually feel them. Swollen lymph nodes may therefore be a good

indication that you have an infection of some sort.

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**The Digestive System**

- Adults eat about 500 kg of food per year.

- 1.5 litres of saliva are produced each day.

- The oesophagus is approximately 25cm long.

- Muscles contract in waves to move the food down the oesophagus. This means that food

would get to a person's stomach, even if they were standing on their head.

- An adult’s stomach can hold approximately 1.5 litres of material.

- Every day 11.5 litres of digested food, liquids and digestive juices flow through the digestive

system, but only 100 mls of fluid are lost in faeces.

- In the mouth, food is either cooled or warmed to a more suitable temperature.

- We get two sets of teeth. Our 20 'Baby Teeth’ are replaced starting at around 6-7 years of age

with our 32 ‘Adult Teeth’.

**The Respiratory System**

- At rest, the adult body takes in and breathes out about 6 litres of air each minute.

- The right lung is slightly larger than the left.

- Hairs in the nose help to clean the air we breathe as well as warming it.

- The highest recorded "sneeze speed" is 165 km per hour.

- The surface area of the lungs is roughly the same size as a tennis court.

- The capillaries in the lungs would extend 1,600 kilometres if placed end to end.

- We lose half a litre of water a day through breathing. This is the water vapour we see when we

breathe onto glass.

- A person at rest usually breathes between 12 and 15 times a minute.

- The breathing rate is faster in children and women than in men.

1. Billion
2. Circulatory system
3. Nervous system
4. Cerebrospinal fluid
5. Immune system
6. Mold
7. Mucus
8. Enzyme
9. Digestive system
10. Saliva
11. Oesophagus
12. Faeces (Feces)
13. Respiratory system
14. Capillaries

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**Human Body Word Search**

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