



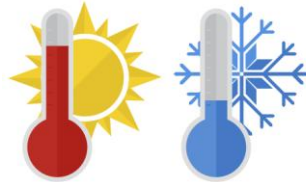
Natural Sciences 3

Module 2: Our Systems

Our senses and nervous system (Nuestros sentidos y el sistema nervioso).

We have five senses and each sense has an organ. (Tenemos 5 sentidos y cada uno de ellos tiene un órgano)

TOUCH (Tacto).

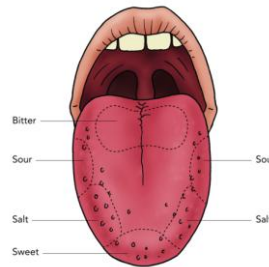


- The organ of touch is the **skin**. (El órgano del tacto es la piel).
- We use our skin to identify if something is hot or cold, hard and soft or smooth or rough. (Utilizamos la piel para saber si algo está frío o caliente, si es duro o blando, o para saber si es suave o rugoso)
- The body is covered with skin, is the largest organ in the body. (El cuerpo está cubierto de piel, éste es el órgano más largo del cuerpo).

Our senses and nervous system

We have five senses and each sense has an organ.

TASTE (Gusto).

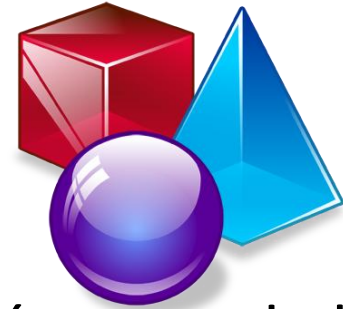


- The organ of taste is the **tongue**. (El órgano del gusto es la lengua).
- We use our tongue to identify different flavours. (Utilizamos la lengua para identificar diferentes sabores).

Our senses and nervous system

We have five senses and each sense has an organ.

SIGHT (Vista).



- The organs of sight are the **eyes**. (Los órganos de la vista son los ojos).
- We use the eyes to identify colour, shape and distance. (Utilizamos los ojos para identificar colores, formas y distancias).



Our senses and nervous system

We have five senses and each sense has an organ.

SMELL (Olfato).



- The organ of smell is the **nose**. (El órgano del olfato es la nariz).
- We use the nose to identify different smells. (Utilizamos la nariz para identificar diferentes olores).



Our senses and nervous system

We have five senses and each sense has an organ.

HEARING (Oído).



- The organs of hearing are the **ears**. (Los órganos que utilizamos para oír son las orejas).
- We use the ears to identify loud, quiet, high and low sounds. (Utilizamos las orejas para identificar el ruido, el silencio, los sonidos altos y bajos).



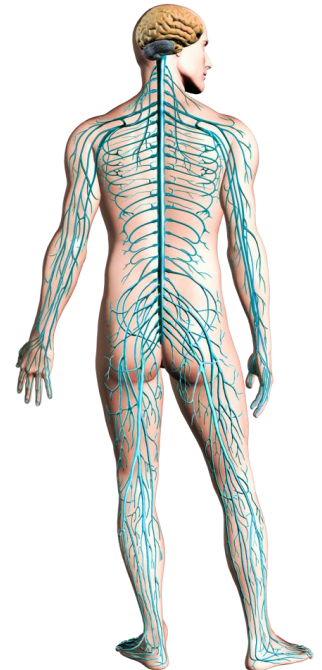
Our senses and nervous system

<https://youtu.be/q1xNuU7gaAQ>

Our senses and nervous system

Our senses work together with our **nervous system**. (The nervous system is made up of the: (Nuestros sentidos trabajan de manera conjunta con el sistema nervioso, el cual está formado por):

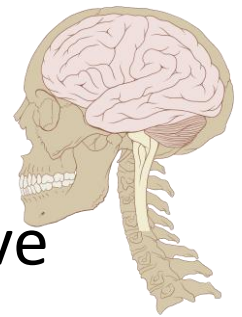
- **Brain.** (Cerebro).
- **Spinal cord.** (Espina dorsal).
- **Nerves.** (Nervios).



Our senses and nervous system

Our senses work together with our **nervous system**.
The nervous system is made up of the:

- The brain is inside the skull. It controls everything that happens in our bodies. (El cerebro está dentro del cráneo. Controla todo lo que sucede en nuestro cuerpo).
- Receives information from our five senses and give instructions. (Recibe información de los cinco sentidos y manda información sobre qué hacer).

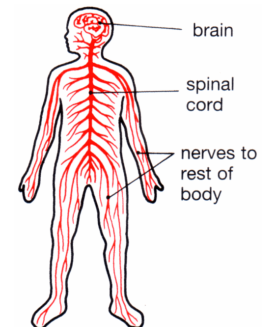


Our senses and nervous system

Our senses work together with our **nervous system**. The nervous system is made up of the:

- There are nerves all over our body. (Tenemos nervios por todo nuestro cuerpo).
- Most nerves are connected to the brain by spinal cord. (La mayoría de los nervios están conectados al cerebro a través de la médula espinal).
- The nerves carry messages to the brain and instructions from the brain to the **locomotor system**. (Los nervios llevan los mensajes al cerebro y transportan instrucciones del cerebro al aparato locomotor).

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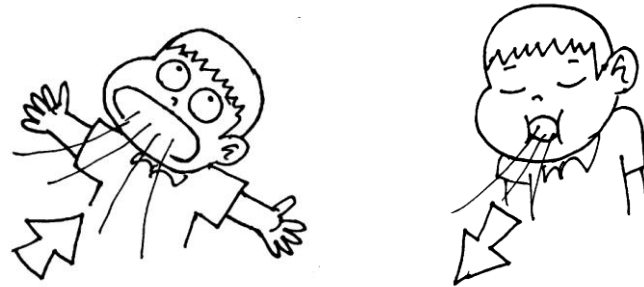


Our locomotor system



Our locomotor system makes our body move. It's made up of bones, joints and muscles. It uses (El sistema o aparato locomotor hace que nuestro cuerpo se mueva, está formado por los huesos, articulaciones y músculos). Utiliza:

- Nutrients from food.(Los nutrientes de la comida).



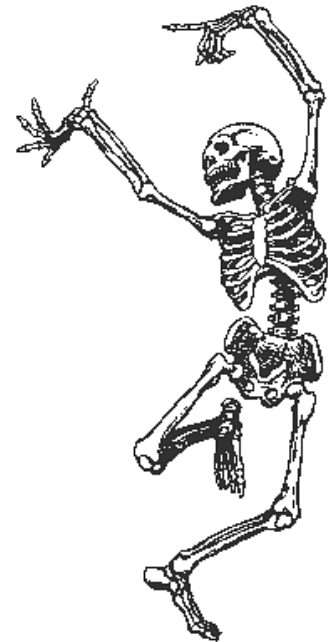
- Oxygen. (Oxígeno).

Our locomotor system

Our locomotor system makes our body move. It's made up of bones, joints and muscles.

BONES (Huesos):

- We have 206 bones. (Tenemos 206 huesos).
- They are hard and rigid. (Son duros y rígidos).
- They support the body and protect organs. (Ayudan a mantener el cuerpo y protegen los órganos).



Our locomotor system

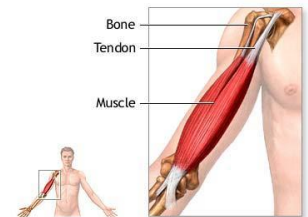
Our locomotor system makes our body move. It's made up of bones, joints and muscles.



JOINTS (ARTICULACIONES):



- Are where two or more bones meet. (Es el lugar donde dos o mas huesos coinciden).
- At the joints tendons attach muscles to the bones. (En las articulaciones los tendones unen los músculos a los huesos).

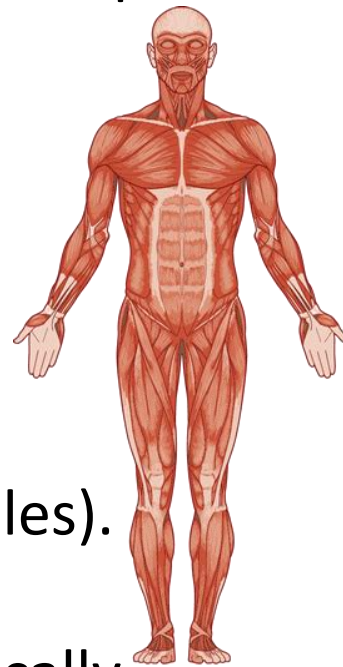


Our locomotor system

Our locomotor system makes our body move. It's made up of bones, joints and muscles.

MUSCLES (Músculos):

- We have 600 muscles! (Tenemos 600).
- They are **elastic** and **flexible**. (Son elásticos y flexibles).
- We can move some of them, other move automatically. (Podemos mover algunos de ellos, otros se mueven de forma automática).



Our circulatory system (Nuestro sistema circulatorio).

Our circulatory system is like a transport system. It carries nutrients from the food we eat and oxygen from the air. It's made up of (El aparato o sistema circulatorio es como un sistema de transporte. Lleva los nutrientes de la comida y el oxígeno del aire) Está formado por:

- **Heart (Corazón).**
- **Blood (Sangre).**
- **Blood vessels (Vasos sanguíneos).**

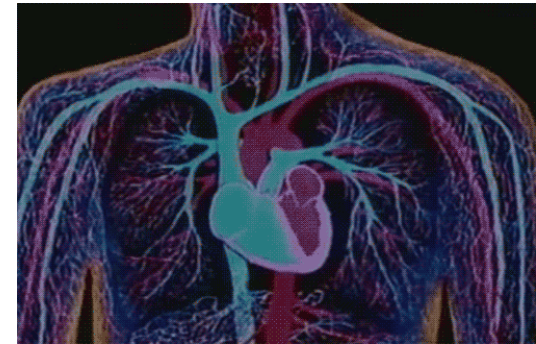


Our circulatory system

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Heart (Corazón):

- Is a muscle the size of your fist.
(Es un músculo del tamaño de tu puño).
- It is in the middle of the chest. (Está en el centro del pecho).
- It works day and night to pump blood to every part of the body.
(Trabaja día y noche bombeando sangre a todas las partes de tu cuerpo).

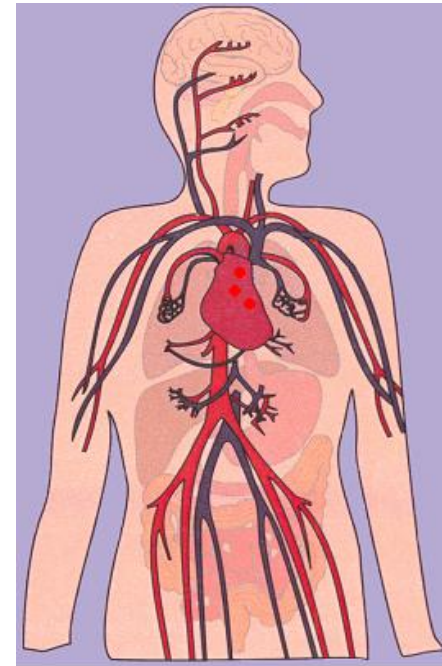


Our circulatory system

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Blood (Sangre):

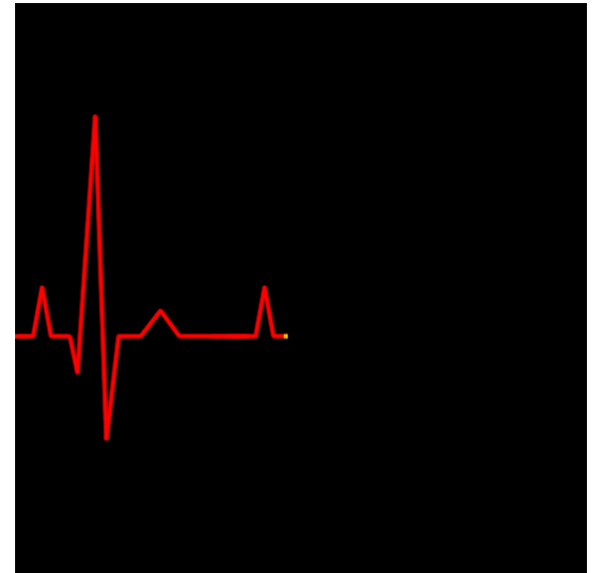
- The blood is a red liquid that goes around the body. (La sangre es un líquido de color rojo que recorre por todo nuestro cuerpo).
- On the way it picks up nutrients and oxygen and drops off carbon dioxide. (En su camino, coge oxígeno y nutrientes y expulsa dióxido de carbono).
- It travels in thin tubes called blood vessels. (La sangre viaja en unos tubos muy finos llamados vasos sanguíneos).



Counting heart beats (Contando nuestras pulsaciones).

In some places of your body you can feel a small thump everytime your heart beats. (En algunos lugares de nuestro cuerpo podemos sentir pequeños ruidos cada vez que nuestro corazón late.

This is called pulse. (A estos ruidos se les llama pulso).

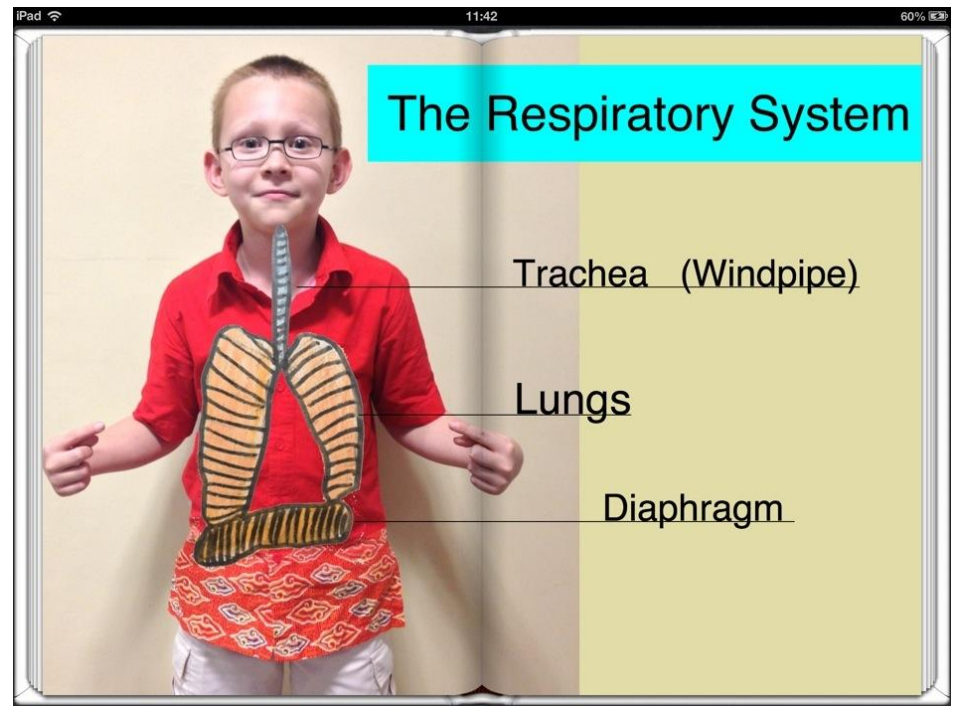


- <https://youtu.be/tF9-jLZNM10>

Our respiratory system (Nuestro sistema respiratorio).

Oxygen enters our blood through the respiratory system when we breath in. The respiratory system is made up of the (El oxígeno llega a la sangre a través del sistema respiratorio. El sistema respiratorio está formado por):

- **Nose. (Nariz).**
- **Windpipe. (Tráquea).**
- **Bronchi. (Bronquios).**
- **Lungs. (Pulmones).**



Our respiratory system

Oxygen enters our blood through the respiratory system when we breath in. The respiratory system is made up of the:



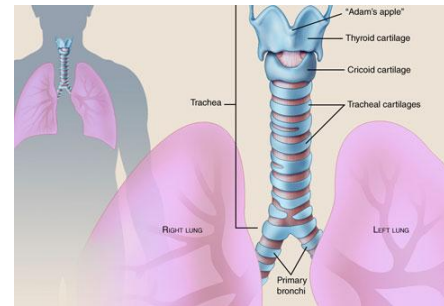
Nose (Nariz):

- The nose has two nostrils where the air enters our body. (Nuestra nariz tiene dos orificios por los cuales entra el aire a nuestro cuerpo).
- The hair in the nostrils clean the air. (Los pelitos que tenemos en la nariz sirven para limpiar el aire que respiramos).

Our respiratory system

Oxygen enters our blood through the respiratory system when we breath in. The respiratory system is made up of the:

Windpipe (Tráquea):



- Is a tube that divides in two smaller tubes called bronchi. (Es un tubo que conecta la boca con los pulmones y se divide en dos tubos más pequeños llamados bronquios).
- The air goes down to the bronchi into the lungs. (El aire va desde la nariz y la boca hasta los bronquios, que es'tán dentro de los pulmones).

Our respiratory system

Oxygen enters our blood through the respiratory system when we breath in. The respiratory system is made up of the:



Lungs (Pulmones):

- Are two bags that are protected by our ribs. (Son como dos sacos que están protegidos por las costillas).
- The oxygen passes from the air into the blood and the carbon dioxide passes from the blood into the air. (Hacen que el oxígeno pase a la sangre y el dióxido de carbono pase de nuestra sangre al exterior).

Our reproductive system (Nuestro sistema reproductor).

Our reproductive system allows us to have babies.
(El sistema reproductor es el que nos permite tener bebés).

- Men and women have different reproductive systems. (Las mujeres y los hombres tienen diferentes sistemas reproductores).
- The male cell is called sperm and the female is called egg. (La célula masculina se llama esperma y la femenina óvulo).