

MINDMAPPING

Refer to PRACTICAL SHEETS n°:
WC07, MC19...

Use these TOOLBOX resources:
CANVA GENIALLY, Cmap, Mindomo

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Adapt learning content in order to include a concept map activity

Teachers can try to develop a lesson considering this situation:

- Imagine you are a math and science teacher and have a class that needs to learn and retain a certain topic. Take the example here presented about Neurons and functions.
- Include in your program of the lesson at least 20 minutes for a concept map
- Your goal is to make sure that your students retain the new information and practice the content.

Remember to:

- concept map are not only writing words. It's about connecting concepts in the best way for students
- concept maps usually use arrows
- concept maps usually have a fixed structure (main topic and descendent order)

How does a neuron work?

Theory

A typical neuron is divided into three parts: the cell body, the dendrites and the axon. The cell body, the center of the neuron, extends its processes called the axon and the dendrites to other cells. Dendrites typically branch profusely, getting thinner with each branching. The axon is thin but can reach enormous distances.

To make a comparable scale, the diameter of a neuron is about the tenth size of the diameter of a human hair.

The cell body is the central part of the neuron. It contains the nucleus of the cell (that carries all the genetic material) and numerous organelles that allow protein synthesis (endoplasmic reticulum, golgi, etc) and energy production (mitochondria). The axon is a fine, cable-like projection that can extend over enormous distances. At its final tip, the axon contacts other cells (nerve- or muscle cells), through structures named synapses.

The cell body and the axon are supported by a complex network of structural proteins called microtubules.

[www.wingsforlife.com]

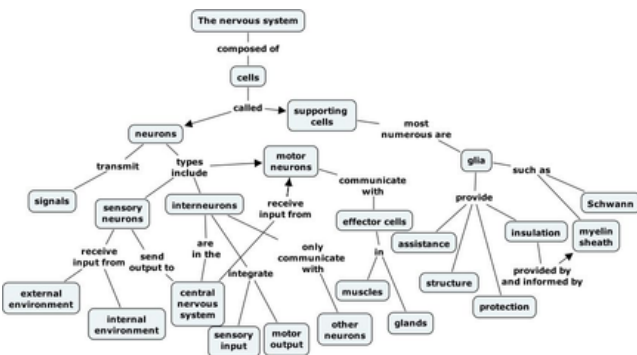
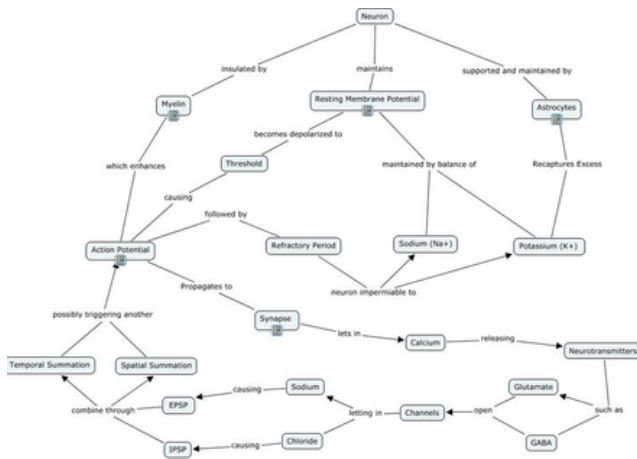
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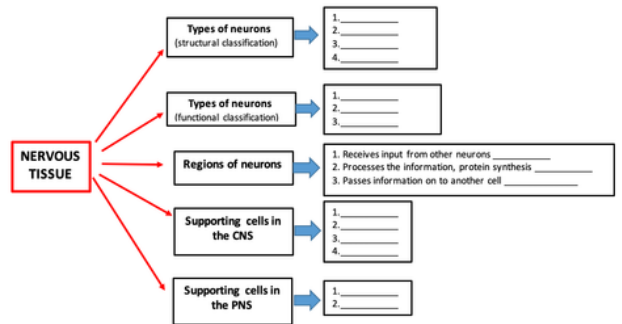
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Some examples



Using concept maps

9- Complete the concept map about the nervous tissue



Remember that you can use a concept map in several contexts like:

- during a lesson to gain information and retain information
- as homework to study
- for a test (also suitable for specific learning disorders)