

# The Nervous System

The nervous system is a complex, specialised network of cells in the human body and it is the primary internal system of communication. The cells involved carry messages to and from the brain so that all parts of the body can communicate with each other.

The nervous system contains all the neurons in the body (estimated as 15-20 billion) and various parts of the system are specialised for different functions.

- To do its job effectively, the brain needs to receive input from the body's sensory receptors (touch and pain receptors on the skin, taste etc). This information is carried along **SENSORY PATHWAYS** that run from sensory receptors to the spinal cord and then on to the brain.

Neurons making up these sensory pathways are called **SENSORY NEURONS**.

- In order to control movement, the brain needs to connect and communicate to muscles of the skeleton. It also needs to control the functioning of internal organs (heart, digestive system). **MOTOR PATHWAYS** allow the brain to control movement and the response of internal systems.

Neurons making up these motor pathways are called **MOTOR NEURONS**.

- We also have **RELAY NEURONS** which operate entirely within the CNS, interconnecting different parts of the brain to the spinal cord. Most of the neurons in the brain are relay neurons.

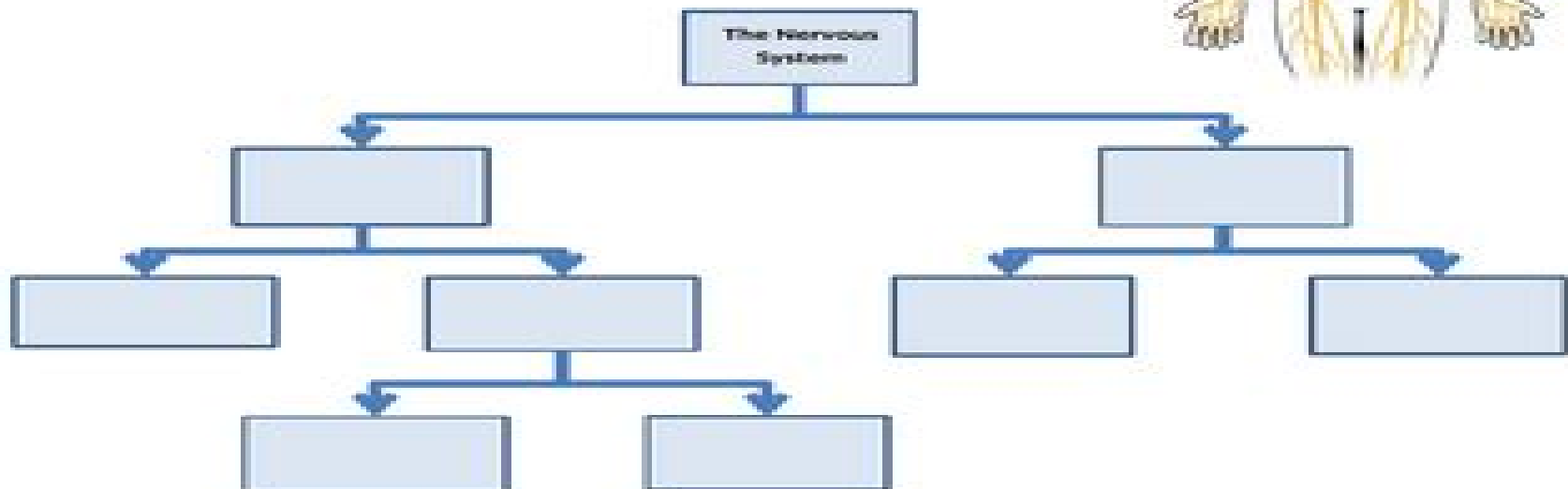
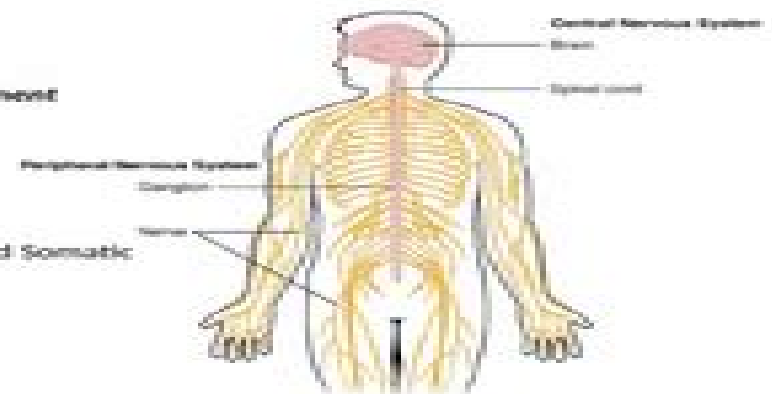
The nervous system has 2 main functions:

1. To collect, process and respond to information in the environment
2. To co-ordinate the working of organs and cells in the body

It is divided into 2 subsystems (which are then further split):

**CENTRAL NERVOUS SYSTEM (CNS)** = brain and spinal cord

**PERIPHERAL NERVOUS SYSTEM (PNS)** = Autonomic nervous system and Somatic nervous system



# How The Nervous System Works Workbook

**Walter F. Boron, Emile L. Boulpaep**



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**Philosophy of Biology** Michael Ruse,2008-07-10 This handbook covers the history of philosophy of biology then moves on to evolutionary theory It continues with discussions of molecular biology and ecology and covers biology and ethics as well as biology and religion Medical Physiology, 2e Updated Edition E-Book Walter F. Boron,Emile L. Boulpaep,2012-01-13

Medical Physiology in its updated 2nd edition firmly relates molecular and cellular biology to the study of human physiology and disease Drs Walter Boron and Emile Boulpaep and a team of leading physiologists present you with practical accurate coverage continually emphasizing the clinical implications of the material Each chapter explains the principles and organization of each body system while more than 1400 high quality full color line drawings and prominently featured clinical examples clarify every concept This exceptionally detailed and comprehensive guide to physiology is ideal for a rich straightforward state of the art understanding of this essential subject Quickly review important content using prominent boxes included throughout the text to provide clinical examples of disordered physiology Master difficult concepts with the use of 800 color drawings that feature balloon captions explaining key processes Find information easily with the intuitive

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**Handbook of Affective Sciences** Richard J Davidson, Klaus R Sherer, H. Hill Goldsmith, 2009-05-21 One hundred stereotype maps glazed with the most exquisite human prejudice especially collected for you by Yanko Tsvetkov author of the viral Mapping Stereotypes project Satire and cartography rarely come in a single package but in the Atlas of Prejudice they successfully blend in a work of art that is both funny and thought provoking The book is based on Mapping Stereotypes Yanko Tsvetkov's critically acclaimed project that became a viral Internet sensation in 2009 A reliable weapon against bigots of all kinds it serves as an inexhaustible source of much needed argumentation and occasionally as a nice slab of paper that can be used to smack them across the face

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web a radical is also in simplest form when the radicand is not a fraction example 1 33 for example has no square factors its factors are 3 11 neither of which is a square number therefore is in its simplest form example 2 extracting the square root 18 has the square factor 9 18 9 2



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web we will simplify this radical expression into the simplest form until no further simplification can be done step 1 find the factors of the number under the radical 486  $3 \times 3 \times 3 \times 3 \times 2$  step 2 write the number under the radical as a product of its factors as powers of 2  $486 = 3^2 \times 3^2 \times 3^2 \times 2$

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