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Product Name :

Health and Harmony

Product Code :

SLE/EB/01



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Description :

Health and Harmony carries one theme, the nervous system, through physics, chemistry, biology and mathematics lessons. The kit holds brain, head, spine, arm and wave models, a conductivity of water tester, and teacher activities and instructions. Lessons built on it follow how messages travel through the body andhow drugs affect neurotransmitters.

Health and Harmony kit contents and topics

Parameter	Detail
Type	Cross-curricular nervous system and health kit
Disciplines covered	Physics, Chemistry, Biology and Mathematics
Topics	Effect of drugs on neurotransmitters; message transmission through the body; wavelength and frequency; the nervous system as the body's processing system
Models	Brain model, head model, spine model, arm model and wave model
Tester	Conductivity of water tester
Teacher support	Teacher activities and instructions
Product code	SLE/EB/01
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

One theme across four subjects

Biology, tracing a message. Begin with the brain and head models, then follow the route down the spine model and out to the arm model. Students mark which part receives information, which part decides and which part acts, and then find the same pathway on a full human nervous system model.

Chemistry, water that conducts. Test distilled water with the conductivity of water tester, then the same water with a few crystals of sodium chloride dissolved in it, following the teacher instructions. The salt solution conducts far better because it now holds free ions. Students connect this to the charged particles that cross a neuron's membrane as an impulse passes.

Physics and mathematics, waves and response times. Students use the wave model to measure a wavelength and to explain what frequency means. In the maths lesson they tabulate the readings, then add response times taken with a reaction timer and plot each data set as a graph.

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