

Solutions

2.1

- The gap between two neurons.

2.2

- Neurotransmitters.

2.3

- The signal can be processed through the spinal cord.
- The hand moves before a slow conscious decision is needed.

3.1

- A signal travels along the first neuron's axon.
- It reaches the synapse.
- Neurotransmitters cross the gap chemically.
- The next neuron receives the message.

3.2

- The central nervous system includes brain and spinal cord.
- It processes and coordinates signals.
- The peripheral nervous system is the nerves outside it.
- It carries signals between the central system and the body.