Science understanding

Visual/spatial Verbal/linguistic

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the sensory neurones in

(c) Identify the pathway of

motor neurones in red.

3 Use Figure 7.2.1 to demonstrate the path of a reflex action.

(a) Identify the pathway of

neurone in green. (b) Identify the relay

Because reflexes do not have to pass all the way up to the brain and back, they are very back along motor neurones to the first place they were received. This causes a response. to the spinal cord. Within the spinal cord, a relay neurone transmits the message straight Reflexes are messages that travel from where they are received, along a sensory neurone

and pulling your foot away after standing on a sharp object. A message is sent to the hand away from a hot object, blinking your eyes to stop something getting into them, fast. Reflexes also help protect you from danger. Examples of reflexes are: pulling your

brain shortly afterwards. Only then can the brain register pain!

system. Compare a reflex action with normal stimulus–response reactions of the nervous

2 Explain why this makes the reflex action so much faster.

