

Solutions

Each answer shows the steps, then the **result**.

2.1

- Reception, transduction, response

2.2

- The signal molecule binds its receptor

2.3

- Response

3.1 C

- reception

3.2

(a)

- Reception: adrenaline binds the receptor; response: glycogen is broken down

(b)

- The signal is relayed and amplified through a chain of internal molecules that carry the message to the response

3.3

- Binding changes the receptor's shape, which activates it to start the internal pathway; without this change the signal could not be passed on