

5.1.1 Communication and homeostasis

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| (a) | the need for communication systems in multicellular organisms | To include the need for animals and plants to respond to changes in the internal and external environment and to coordinate the activities of different organs. |
| (b) | the communication between cells by cell signalling | To include signalling between adjacent cells and signalling between distant cells. |
| (c) | the principles of homeostasis | To include the differences between receptors and effectors, and the differences between negative feedback and positive feedback. |

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| (d) | the physiological and behavioural responses involved in temperature control in ectotherms and endotherms. | To include, <ul style="list-style-type: none">• endotherms – peripheral temperature receptors, the role of the hypothalamus and effectors in skin and muscles; behavioural responses• ectotherms – behavioural responses. |
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An opportunity to monitor physiological functions in ectotherms and/or endotherms.

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