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| *Human Perspectives ATAR Units 3 & 4* |

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Worksheet 5.2 Homeostasis of blood sugar

Using Chapter 5 of *Human Perspectives ATAR Units 3 & 4*, complete the following activities.

**1** Write the word equation for cellular respiration. Highlight the inputs and outputs with different colours.

**2** Explain where the materials for respiration come from and what systems are involved in supplying them to the cells.

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**3** Explain how the liver is involved in the regulation of blood sugar.

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**4** Write the meaning of each term in the following table.

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| **Term Meaning** |
| Glucose |  |
| Glycogen |  |
| Glycogenesis |  |
| Glycogenolysis |  |
| Gluconeogenesis |  |
| Glucagon |  |
| Insulin |  |
| Lipogenesis |  |
| Lipolysis |  |

**5** Use a feedback model to explain what would happen to the blood sugar regulation of a person participating in the 40 Hour Famine.