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| *Human Perspectives ATAR Units 3 & 4* |

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Worksheet 1.1 Scientific investigations

**1** Design an investigation to test the following hypothesis: *Drinking caffeine will increase memory.*

**a** Rewrite the hypothesis to improve it.

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**b** Identify the independent and dependent variables.

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**c** Describe how you will control the other variables.

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**d** Describe any ethical considerations that would need to be factored in.

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**e** Write a method for the investigation.

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**f** Prepare a results table.

**g** Describe how you would graph the data.

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**h** How could you maximise the accuracy of your data?

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**i** How could you identify the reliability of the data?

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**j** How could you ensure the validity of the method and data?

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**k** What information would you include in the conclusion?

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**2** If your teacher allows, conduct your investigation and write a scientific report.