





## Criterion C: Processing and evaluating

Maximum: 8

At the end of year 3, students should be able to:

- i. present collected and transformed data
- ii. interpret data and describe results using scientific reasoning
- iii. discuss the validity of a hypothesis based on the outcome of the scientific investigation
- iv. discuss the validity of the method
- v. describe improvements or extensions to the method.

| Achievement level | Level descriptor  |
|-------------------|---|
| 0                 | The student does not reach a standard identified by any of the descriptors below.   |
| 1–2               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>collect and present</b> data in numerical and/or visual forms</li> <li>ii. <b>accurately interpret</b> data</li> <li>iii. <b>state</b> the validity of a hypothesis <b>with limited reference</b> to a scientific investigation</li> <li>iv. <b>state</b> the validity of the method <b>with limited reference</b> to a scientific investigation</li> <li>v. <b>state limited</b> improvements or extensions to the method.</li> </ol>   |
| 3–4               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>correctly collect and present</b> data in numerical and/or visual forms</li> <li>ii. <b>accurately interpret</b> data and <b>describe</b> results</li> <li>iii. <b>state</b> the validity of a hypothesis based on the outcome of a scientific investigation</li> <li>iv. <b>state</b> the validity of the method based on the outcome of a scientific investigation</li> <li>v. <b>state</b> improvements or extensions to the method that would benefit the scientific investigation.</li> </ol>   |
| 5–6               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>correctly collect, organize and present</b> data in numerical and/or visual forms</li> <li>ii. <b>accurately interpret</b> data and <b>describe</b> results <b>using scientific reasoning</b></li> <li>iii. <b>outline</b> the validity of a hypothesis based on the outcome of a scientific investigation</li> <li>iv. <b>outline</b> the validity of the method based on the outcome of a scientific investigation</li> <li>v. <b>outline</b> improvements or extensions to the method that would benefit the scientific investigation.</li> </ol> |

| Achievement level | Level descriptor  |
|-------------------|---|
| 7–8               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>correctly collect, organize, transform and present</b> data in numerical and/or visual forms</li> <li>ii. <b>accurately interpret data</b> and <b>describe</b> results <b>using correct scientific reasoning</b></li> <li>iii. <b>discuss</b> the validity of a hypothesis based on the outcome of a scientific investigation</li> <li>iv. <b>discuss</b> the validity of the method based on the outcome of a scientific investigation</li> <li>v. <b>describe</b> improvements or extensions to the method that would benefit the scientific investigation.</li> </ol> |

Feedback: \_\_\_\_\_

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## Criterion C: Processing and evaluating

Maximum: 8

At the end of year 3, students should be able to:

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- ii. interpret data and describe results using scientific reasoning
- iii. discuss the validity of a hypothesis based on the outcome of the scientific investigation
- iv. discuss the validity of the method
- v. describe improvements or extensions to the method.

| Achievement level | Level descriptor  |
|-------------------|---|
| 0                 | The student does not reach a standard identified by any of the descriptors below.   |
| 1–2               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>collect and present</b> data in numerical and/or visual forms</li> <li>ii. <b>accurately interpret</b> data</li> <li>iii. <b>state</b> the validity of a hypothesis <b>with limited reference</b> to a scientific investigation</li> <li>iv. <b>state</b> the validity of the method <b>with limited reference</b> to a scientific investigation</li> <li>v. <b>state limited</b> improvements or extensions to the method.</li> </ol>   |
| 3–4               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>correctly collect and present</b> data in numerical and/or visual forms</li> <li>ii. <b>accurately interpret</b> data and <b>describe</b> results</li> <li>iii. <b>state</b> the validity of a hypothesis based on the outcome of a scientific investigation</li> <li>iv. <b>state</b> the validity of the method based on the outcome of a scientific investigation</li> <li>v. <b>state</b> improvements or extensions to the method that would benefit the scientific investigation.</li> </ol>   |
| 5–6               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>correctly collect, organize and present</b> data in numerical and/or visual forms</li> <li>ii. <b>accurately interpret</b> data and <b>describe</b> results <b>using scientific reasoning</b></li> <li>iii. <b>outline</b> the validity of a hypothesis based on the outcome of a scientific investigation</li> <li>iv. <b>outline</b> the validity of the method based on the outcome of a scientific investigation</li> <li>v. <b>outline</b> improvements or extensions to the method that would benefit the scientific investigation.</li> </ol> |

| Achievement level | Level descriptor  |
|-------------------|---|
| 7–8               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>correctly collect, organize, transform and present</b> data in numerical and/or visual forms</li> <li>ii. <b>accurately interpret data</b> and <b>describe</b> results <b>using correct scientific reasoning</b></li> <li>iii. <b>discuss</b> the validity of a hypothesis based on the outcome of a scientific investigation</li> <li>iv. <b>discuss</b> the validity of the method based on the outcome of a scientific investigation</li> <li>v. <b>describe</b> improvements or extensions to the method that would benefit the scientific investigation.</li> </ol> |

Feedback: \_\_\_\_\_

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## Criterion D: Reflecting on the impacts of science

Maximum: 8

At the end of year 3, students should be able to:

- i. describe the ways in which science is applied and used to address a specific problem or issue
- ii. discuss and analyse the various implications of using science and its application in solving a specific problem or issue
- iii. apply scientific language effectively
- iv. document the work of others and sources of information used.

| Achievement level | Level descriptor   |
|-------------------|--|
| 0                 | The student does not reach a standard identified by any of the descriptors below.  |
| 1–2               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>state</b> the ways in which science is used to address a specific problem or issue</li> <li>ii. <b>state</b> the implications of the use of science to solve a specific problem or issue, interacting with a factor</li> <li>iii. <b>apply</b> scientific language to communicate understanding but does so <b>with limited success</b></li> <li>iv. document sources, <b>with limited success</b>.</li> </ol>                                    |
| 3–4               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>outline</b> the ways in which science is used to address a specific problem or issue</li> <li>ii. <b>outline</b> the implications of using science to solve a specific problem or issue, interacting with a factor</li> <li>iii. <b>sometimes apply</b> scientific language to communicate understanding</li> <li>iv. <b>sometimes</b> document sources <b>correctly</b>.</li> </ol>  |
| 5–6               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>summarize</b> the ways in which science is applied and used to address a specific problem or issue</li> <li>ii. <b>describe</b> the implications of using science and its application to solve a specific problem or issue, interacting with a factor</li> <li>iii. <b>usually apply</b> scientific language to communicate understanding <b>clearly</b></li> </ol>   |
| Achievement level | Level descriptor   |
| 7–8               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>describe</b> the ways in which science is applied and used to address a specific problem or issue</li> <li>ii. <b>discuss and analyse</b> the implications of using science and its application to solve a specific problem or issue, interacting with a factor</li> <li>iii. <b>consistently apply</b> scientific language to communicate understanding <b>clearly and precisely</b></li> <li>iv. document sources <b>completely</b>.</li> </ol> |

Feedback: \_\_\_\_\_

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## Criterion D: Reflecting on the impacts of science

Maximum: 8

At the end of year 3, students should be able to:

- i. describe the ways in which science is applied and used to address a specific problem or issue
- ii. discuss and analyse the various implications of using science and its application in solving a specific problem or issue
- iii. apply scientific language effectively
- iv. document the work of others and sources of information used.

| Achievement level | Level descriptor   |
|-------------------|--|
| 0                 | The student does not reach a standard identified by any of the descriptors below.  |
| 1–2               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>state</b> the ways in which science is used to address a specific problem or issue</li> <li>ii. <b>state</b> the implications of the use of science to solve a specific problem or issue, interacting with a factor</li> <li>iii. <b>apply</b> scientific language to communicate understanding but does so <b>with limited success</b></li> <li>iv. document sources, <b>with limited success</b>.</li> </ol>                                    |
| 3–4               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>outline</b> the ways in which science is used to address a specific problem or issue</li> <li>ii. <b>outline</b> the implications of using science to solve a specific problem or issue, interacting with a factor</li> <li>iii. <b>sometimes apply</b> scientific language to communicate understanding</li> <li>iv. <b>sometimes</b> document sources <b>correctly</b>.</li> </ol>  |
| 5–6               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>summarize</b> the ways in which science is applied and used to address a specific problem or issue</li> <li>ii. <b>describe</b> the implications of using science and its application to solve a specific problem or issue, interacting with a factor</li> <li>iii. <b>usually apply</b> scientific language to communicate understanding <b>clearly and precisely</b></li> <li>iv. <b>usually</b> document sources <b>correctly</b>.</li> </ol>  |
| Achievement level | Level descriptor   |
| 7–8               | The student is able to: <ol style="list-style-type: none"> <li>i. <b>describe</b> the ways in which science is applied and used to address a specific problem or issue</li> <li>ii. <b>discuss and analyse</b> the implications of using science and its application to solve a specific problem or issue, interacting with a factor</li> <li>iii. <b>consistently apply</b> scientific language to communicate understanding <b>clearly and precisely</b></li> <li>iv. document sources <b>completely</b>.</li> </ol> |

Feedback: \_\_\_\_\_

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