

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Year 1 Criterion A: Knowing and Understanding

Achievement level	Achievement level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student is able to: i. <b>select</b> scientific knowledge ii. <b>select</b> scientific knowledge and understanding to <b>suggest solutions</b> to problems set in <b>familiar situations</b> iii. <b>apply</b> information to <b>make judgments, with limited success.</b>
3–4	The student is able to: i. <b>recall</b> scientific knowledge ii. <b>apply</b> scientific knowledge and understanding to <b>suggest solutions</b> to problems set in <b>familiar situations</b> iii. <b>apply</b> information to <b>make judgments.</b>
5–6	The student is able to: i. <b>state</b> scientific knowledge ii. <b>apply</b> scientific knowledge and understanding to <b>solve problems</b> set in <b>familiar situations</b> iii. <b>apply</b> information to <b>make scientifically supported judgments.</b>
7–8	The student is able to: i. <b>outline</b> scientific knowledge ii. <b>apply</b> scientific knowledge and understanding to <b>solve problems</b> set in <b>familiar situations</b> and <b>suggest solutions</b> to problems set in <b>unfamiliar situations</b> iii. <b>interpret</b> information to <b>make scientifically supported judgments.</b>

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IB Grade: \_\_\_\_\_

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### Year 1 Criterion A: Knowing and Understanding

Achievement level	Achievement level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student is able to: i. <b>select</b> scientific knowledge ii. <b>select</b> scientific knowledge and understanding to <b>suggest solutions</b> to problems set in <b>familiar situations</b> iii. <b>apply</b> information to <b>make judgments, with limited success.</b>
3–4	The student is able to: i. <b>recall</b> scientific knowledge ii. <b>apply</b> scientific knowledge and understanding to <b>suggest solutions</b> to problems set in <b>familiar situations</b> iii. <b>apply</b> information to <b>make judgments.</b>
5–6	The student is able to: i. <b>state</b> scientific knowledge ii. <b>apply</b> scientific knowledge and understanding to <b>solve problems</b> set in <b>familiar situations</b> iii. <b>apply</b> information to <b>make scientifically supported judgments.</b>
7–8	The student is able to: i. <b>outline</b> scientific knowledge ii. <b>apply</b> scientific knowledge and understanding to <b>solve problems</b> set in <b>familiar situations</b> and <b>suggest solutions</b> to problems set in <b>unfamiliar situations</b> iii. <b>interpret</b> information to <b>make scientifically supported judgments.</b>

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### Year 1 Criterion B: Inquiring and Designing

Achievement level	Achievement level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student is able to: i. <b>select</b> a problem or question to be tested by a scientific investigation ii. <b>select</b> a testable prediction iii. <b>state</b> a variable iv. design a <b>method with limited success</b> .
3–4	The student is able to: i. <b>state</b> a problem or question to be tested by a scientific investigation ii. <b>state</b> a testable prediction iii. <b>state</b> how to manipulate the variables, and <b>state</b> how <b>data</b> will be collected iv. design a <b>safe method</b> in which he or she <b>selects materials and equipment</b> .
5–6	The student is able to: i. <b>state</b> a problem or question to be tested by a scientific investigation ii. <b>outline</b> a testable prediction iii. <b>outline</b> how to manipulate the variables, and <b>state</b> how <b>relevant data</b> will be collected iv. design a <b>complete and safe method</b> in which he or she <b>selects appropriate materials and equipment</b> .
7–8	The student is able to: i. <b>outline</b> a problem or question to be tested by a scientific investigation ii. <b>outline</b> a testable prediction <b>using scientific reasoning</b> iii. <b>outline</b> how to manipulate the variables, and <b>outline</b> how <b>sufficient, relevant data</b> will be collected iv. design a <b>logical, complete and safe method</b> in which he or she <b>selects appropriate materials and equipment</b> .

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### Year 1 Criterion B: Inquiring and Designing

Achievement level	Achievement level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student is able to: i. <b>select</b> a problem or question to be tested by a scientific investigation ii. <b>select</b> a testable prediction iii. <b>state</b> a variable iv. design a <b>method with limited success</b> .
3–4	The student is able to: i. <b>state</b> a problem or question to be tested by a scientific investigation ii. <b>state</b> a testable prediction iii. <b>state</b> how to manipulate the variables, and <b>state</b> how <b>data</b> will be collected iv. design a <b>safe method</b> in which he or she <b>selects materials and equipment</b> .
5–6	The student is able to: i. <b>state</b> a problem or question to be tested by a scientific investigation ii. <b>outline</b> a testable prediction iii. <b>outline</b> how to manipulate the variables, and <b>state</b> how <b>relevant data</b> will be collected iv. design a <b>complete and safe method</b> in which he or she <b>selects appropriate materials and equipment</b> .
7–8	The student is able to: i. <b>outline</b> a problem or question to be tested by a scientific investigation ii. <b>outline</b> a testable prediction <b>using scientific reasoning</b> iii. <b>outline</b> how to manipulate the variables, and <b>outline</b> how <b>sufficient, relevant data</b> will be collected iv. design a <b>logical, complete and safe method</b> in which he or she <b>selects appropriate materials and equipment</b> .

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### Year 1 Criterion C: Processing and Evaluating

Achievement level	Achievement level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1-2	The student is able to: i. <b>collect and present</b> data in numerical and/or visual forms ii. <b>interpret</b> data iii. <b>state</b> the validity of a prediction based on the outcome of a scientific investigation, <b>with limited success</b> iv. <b>state</b> the validity of the method based on the outcome of a scientific investigation, <b>with limited success</b> v. <b>state</b> improvements or extensions to the method that would benefit the scientific investigation, <b>with limited success</b> .
3-4	The student is able to: i. <b>correctly collect and present</b> data in numerical and/or visual forms ii. <b>accurately interpret</b> data and <b>outline</b> results iii. <b>state</b> the validity of a prediction based on the outcome of a scientific investigation iv. <b>state</b> the validity of the method based on the outcome of a scientific investigation v. <b>state</b> improvements or extensions to the method that would benefit the scientific investigation.
5-6	The student is able to: i. <b>correctly collect, organize and present</b> data in numerical and/or visual forms ii. <b>accurately interpret</b> data and <b>outline</b> results <b>using scientific reasoning</b> iii. <b>outline</b> the validity of a prediction based on the outcome of a scientific investigation iv. <b>outline</b> the validity of the method based on the outcome of a scientific investigation v. <b>outline</b> improvements or extensions to the method that would benefit the scientific investigation.
7-8	The student is able to: i. <b>correctly collect, organize, transform and present</b> data in numerical and/or visual forms ii. <b>accurately interpret data</b> and <b>outline</b> results <b>using correct scientific reasoning</b> iii. <b>discuss</b> the validity of a prediction based on the outcome of a scientific investigation iv. <b>discuss</b> the validity of the method based on the outcome of a scientific investigation v. <b>describe</b> improvements or extensions to the method that would benefit the scientific investigation.

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### Year 1 Criterion C: Processing and Evaluating

Achievement level	Achievement level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1-2	The student is able to: i. <b>collect and present</b> data in numerical and/or visual forms ii. <b>interpret</b> data iii. <b>state</b> the validity of a prediction based on the outcome of a scientific investigation, <b>with limited success</b> iv. <b>state</b> the validity of the method based on the outcome of a scientific investigation, <b>with limited success</b> v. <b>state</b> improvements or extensions to the method that would benefit the scientific investigation, <b>with limited success</b> .
3-4	The student is able to: i. <b>correctly collect and present</b> data in numerical and/or visual forms ii. <b>accurately interpret</b> data and <b>outline</b> results iii. <b>state</b> the validity of a prediction based on the outcome of a scientific investigation iv. <b>state</b> the validity of the method based on the outcome of a scientific investigation v. <b>state</b> improvements or extensions to the method that would benefit the scientific investigation.
5-6	The student is able to: i. <b>correctly collect, organize and present</b> data in numerical and/or visual forms ii. <b>accurately interpret</b> data and <b>outline</b> results <b>using scientific reasoning</b> iii. <b>outline</b> the validity of a prediction based on the outcome of a scientific investigation iv. <b>outline</b> the validity of the method based on the outcome of a scientific investigation v. <b>outline</b> improvements or extensions to the method that would benefit the scientific investigation.
7-8	The student is able to: i. <b>correctly collect, organize, transform and present</b> data in numerical and/or visual forms ii. <b>accurately interpret data</b> and <b>outline</b> results <b>using correct scientific reasoning</b> iii. <b>discuss</b> the validity of a prediction based on the outcome of a scientific investigation iv. <b>discuss</b> the validity of the method based on the outcome of a scientific investigation v. <b>describe</b> improvements or extensions to the method that would benefit the scientific investigation.

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**Year 1 Criterion D: Reflecting on the Impacts of Science**

Achievement level	Achievement level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student is able to, <b>with limited success</b> : i. <b>state</b> the ways in which science is used to address a specific problem or issue ii. <b>state</b> the implications of using science to solve a specific problem or issue, interacting with a factor iii. <b>apply</b> scientific language to communicate understanding iv. document sources.
3–4	The student is able to: i. <b>state</b> the ways in which science is used to address a specific problem or issue ii. <b>state</b> the implications of using science to solve a specific problem or issue, interacting with a factor iii. <b>sometimes apply</b> scientific language to communicate understanding iv. <b>sometimes</b> document sources correctly.
5–6	The student is able to: i. <b>outline</b> the ways in which science is used to address a specific problem or issue ii. <b>outline</b> the implications of using science to solve a specific problem or issue, interacting with a factor iii. <b>usually apply</b> scientific language to communicate understanding <b>clearly and precisely</b> iv. <b>usually</b> document sources correctly.
7–8	The student is able to: i. <b>summarize</b> the ways in which science is applied and used to address a specific problem or issue ii. <b>describe and summarize</b> the implications of using science and its application to solve a specific problem or issue, interacting with a factor iii. <b>consistently apply</b> scientific language to communicate understanding <b>clearly and precisely</b> iv. document sources <b>completely</b> .

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**Year 1 Criterion D: Reflecting on the Impacts of Science**

Achievement level	Achievement level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student is able to, <b>with limited success</b> : i. <b>state</b> the ways in which science is used to address a specific problem or issue ii. <b>state</b> the implications of using science to solve a specific problem or issue, interacting with a factor iii. <b>apply</b> scientific language to communicate understanding iv. document sources.
3–4	The student is able to: i. <b>state</b> the ways in which science is used to address a specific problem or issue ii. <b>state</b> the implications of using science to solve a specific problem or issue, interacting with a factor iii. <b>sometimes apply</b> scientific language to communicate understanding iv. <b>sometimes</b> document sources correctly.
5–6	The student is able to: i. <b>outline</b> the ways in which science is used to address a specific problem or issue ii. <b>outline</b> the implications of using science to solve a specific problem or issue, interacting with a factor iii. <b>usually apply</b> scientific language to communicate understanding <b>clearly and precisely</b> iv. <b>usually</b> document sources correctly.
7–8	The student is able to: i. <b>summarize</b> the ways in which science is applied and used to address a specific problem or issue ii. <b>describe and summarize</b> the implications of using science and its application to solve a specific problem or issue, interacting with a factor iii. <b>consistently apply</b> scientific language to communicate understanding <b>clearly and precisely</b> iv. document sources <b>completely</b> .

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