

# Assessment Focuses for Science

	AF 1 – Knowledge and Understanding Scientific Knowledge, Problem solving, Application and Implication, Explanations with Evidence	AF 2 - Processing and Evaluating Evaluating and Manipulating Data, Translating Forms of Information, Interpreting Observations, Processing Information	AF 3 - Investigating and Experimenting Conducting experiments, Collecting and Recording Data, Designing an Experiment, Analysing an Experiment	AF 4 - Communicating and Collaborating Evaluating Information, Using Scientific Language, Communicating Information, Documenting Sources
<b>8</b>	i) The student can <u>fluently</u> and <u>concisely</u> describe <b>scientific knowledge</b> ii) The student is able to <u>consistently</u> apply scientific knowledge to <b>solve problems</b> in a variety of both familiar and novel situations iii) The student can <u>understand</u> the <b>application and implications</b> of science and technology from <u>social, economic, and environmental perspectives</u> iv) The student can present <u>soundly reasoned</u> <b>explanations with evidence</b> to support claims	i) The student can <b>interpret, evaluate and manipulate data</b> in <u>various forms with ease</u> ii) The student can <u>consistently</u> <b>translate information</b> from one form into another iii) The student can <u>readily</u> <b>interpret</b> a variety of observations and identify patterns, trends and draw inferences iv) The student can <u>solve</u> familiar and novel <b>quantitative and theory</b> based problems	i) The student can <u>independently</u> and safely use <u>various</u> techniques and instruments to <b>conduct experiments</b> ii) The student can <u>always</u> <b>make</b> and <b>record</b> <u>accurate</u> and <u>precise</u> <b>observations, measurements and estimates</b> iii) The student can <b>plan</b> and execute <u>detailed</u> <b>experiments and investigations</b> iv) I can <u>analyse</u> the <b>validity of experiments</b> and <u>describe</u> <b>extensions and improvements</b>	i) The student can <u>critically</u> and <u>objectively</u> <b>evaluate information</b> from a variety of sources ii) The student can <b>use scientific language</b> to <u>fluently</u> communicate to a range of audiences iii) The student can <u>choose</u> and <b>communicate</b> information and data in the <u>optimal forms</u> depending on the situation iv) The student can <b>document</b> sources <u>completely</u>
<b>7</b>	i) The student can <u>fluently</u> describe <b>scientific knowledge</b> ii) The student can <u>usually</u> apply scientific knowledge to <b>find solutions</b> in a variety of both <u>familiar and novel situations</u> iii) The student <u>understands</u> the <b>application and implications</b> of science and technology from <u>different perspectives</u> iv) The student can present <u>reasoned</u> <b>explanations with limited evidence</b> to support claims	i) The student can <b>interpret, evaluate and manipulate data</b> in <u>different forms</u> ii) The student can <b>translate information</b> from one form into another iii) The student can <u>generally</u> <b>interpret</b> a variety of observations and identify patterns, trends or draw inferences iv) The student can <u>solve</u> familiar and <u>some</u> novel <b>quantitative and theory</b> based problems	i) The student can <u>confidently</u> and safely use <u>various</u> techniques and instruments to <b>conduct experiments</b> ii) The student can <u>generally</u> <b>make</b> and <b>record</b> <u>accurate</u> and <u>precise</u> <b>observations, measurements and estimates</b> iii) The student can <b>plan experiments and investigations</b> iv) The student can <u>describe</u> the <b>validity of experiments</b> and possible <b>extensions and improvements</b>	i) The student can <u>critically</u> and <u>objectively</u> <b>evaluate most information</b> from different sources ii) The student can <b>use scientific language</b> to <u>fluently</u> communicate to select audiences iii) The student can <u>select appropriate</u> forms to <b>communicate</b> information and data depending on the situation iv) The student can <u>usually</u> <b>document</b> sources <u>completely</u>
<b>6</b>	i) The student can describe <b>scientific knowledge</b> with some success ii) The student is <u>usually</u> able to apply scientific knowledge to <b>find solutions</b> in <u>familiar and some novel situations</u> iii) The student can <u>understand</u> the <b>application of science and technology</b> from <u>different perspectives</u> and can suggest the implications it has iv) The student can present <b>explanations with limited evidence</b> to support claims	i) The student can <b>interpret, evaluate or manipulate certain data</b> ii) The student can <b>translate some information</b> from one form into another iii) The student can <b>interpret</b> observations and <u>often</u> identify patterns, trends or draw inferences iv) The student can <u>solve</u> familiar and <u>some</u> novel <b>quantitative and theory</b> based problems <u>with assistance</u>	i) The student is <u>familiar with</u> , and safely use techniques and instruments to <b>conduct experiments</b> ii) The student can <b>make</b> and <b>record</b> <u>precise</u> <b>observations, measurements and estimates</b> iii) The student can <b>plan experiments and investigations</b> considering most parts of the experiment iv) The student can <u>outline</u> the <b>validity of experiments</b> and <u>state</u> possible <b>extensions and improvements</b>	i) The student can <u>find</u> and <u>critically</u> <b>evaluate information</b> from different sources ii) The student can <b>use scientific language</b> to communicate to select audiences iii) The student can <b>communicate</b> information and data they have collected in <u>different</u> forms iv) The student can <b>document</b> sources
<b>5</b>	i) The student can <u>outline</u> <b>scientific knowledge</b> ii) The student applies scientific knowledge to <b>solve problems</b> in familiar situations and suggests solutions in novel situations iii) The student can <u>generally</u> <b>understand the application of science and technology</b> from <u>different perspectives and understand it has implications</u> iv) The student can <u>outline</u> <b>explanations</b> with <u>some evidence</u> to support claims	i) The student can <b>interpret, evaluate or manipulate certain data</b> with limited success ii) The student can <b>translate information</b> from one form into another with support iii) The student can <u>usually</u> <b>identify</b> patterns in observations and data and suggest inferences iv) The student can <u>solve</u> familiar <b>quantitative and theory</b> based problems	i) The student can follow complex instructions to use <u>techniques and instruments</u> to <b>conduct experiments</b> with supervision ii) The student can <b>make</b> and <b>record</b> <b>observations, measurements and estimates</b> iii) The student can <b>plan simple experiments and investigations</b> considering some parts of the experiment iv) The student can <u>outline</u> the <b>purpose of experiments</b> and <u>suggest</u> possible <b>extensions or improvements</b>	i) The student can <u>find</u> and <b>evaluate information</b> ii) The student can <b>use scientific language</b> to communicate iii) The student can <b>communicate</b> information and data they have collected in <u>limited</u> forms iv) The student can <u>usually</u> <b>document</b> sources
<b>4</b>	i) The student can <u>recall</u> <b>scientific knowledge</b> ii) The student can <u>use</u> scientific knowledge to <u>suggest</u> <b>solutions</b> in familiar situations iii) The student can <u>understand some</u> of the <b>applications of science and technology</b> and can <u>suggest implications</u> it may have iv) The student can <u>suggest</u> <b>explanations</b> for my claims	i) The student can <b>interpret and evaluate simple data</b> ii) The student can <u>identify and select</u> the appropriate <b>forms of information</b> iii) The student can <b>identify</b> simple patterns in observations and data iv) The student can <b>solve simple</b> quantitative problems	i) The student can follow instructions to use <u>basic techniques and instruments</u> to <b>conduct experiments</b> with supervision ii) The student can record <b>observations, measurements and estimates</b> iii) The student can <u>select or suggest</u> appropriate <b>parts of an experiment</b> such as hypothesis, methods, materials, and variables <u>with assistance</u> iv) The student can <u>state</u> the purpose of <b>experiments</b> and <u>suggest</u> possible <b>extensions or improvements</b> <u>with assistance</u>	i) The student can <u>find and select appropriate</u> <b>information</b> ii) The student can <u>usually</u> <b>use scientific language to communicate</b> iii) The student can <u>usually</u> <b>communicate</b> information and data they have collected iv) The student can <u>sometimes</u> <b>document</b> sources
<b>3</b>	i) The student <u>recalls</u> <b>scientific knowledge</b> with assistance ii) The student can <u>use</u> scientific knowledge to <u>select</u> <b>solutions</b> in familiar situations iii) The student <u>understands some</u> of the <b>applications of science and technology</b> iv) The student can <u>select</u> <b>explanations</b> for my claims	i) The student can <b>interpret</b> simple data <u>with assistance</u> ii) The student can <u>identify and select</u> some different <b>forms of information</b> iii) The student can <b>identify</b> simple patterns in observations and data <u>with assistance</u> iv) The student can <b>solve simple</b> quantitative problems <u>with assistance</u>	i) The student can follow simple instructions to use <u>basic techniques and instruments</u> to <b>conduct experiments</b> with supervision ii) The student <u>knows the difference</u> between <b>observations, measurements and estimates</b> iii) The student <u>knows the difference</u> between <b>parts of an experiment</b> such as hypothesis, methods, materials, and variables iv) The student can <u>suggest</u> the <b>purpose of experiments</b> and <u>knows</u> <b>extensions or improvements</b> <u>are possible</u>	i) The student can <u>find and select</u> <b>information</b> with assistance ii) The student can use <u>basic scientific language to communicate</u> iii) The student can <u>usually</u> <b>communicate information</b> they have collected iv) The student can <u>sometimes</u> <b>document sources</b> with assistance