

# Guide to making judgments — Year 9 Science

Name .....

**Focus:** Investigate the sugar content of a soft drink, analyse the effects of sugary drinks and reflect on health implications.

Investigating	Knowledge and understanding	Investigating	Reflecting	
<p>Analyses an investigation for fairness of design and implementation.</p> <p>Questions 1–4</p>	<p>Names and describes the functions of parts of the digestive system and demonstrates understanding of how digestion, circulation and respiration work together to provide fuel for the body.</p> <p>Questions 5–6</p>	<p>Analyses experimental evidence, graphical data and information to explain patterns and draw conclusions.</p> <p>Questions 7–14</p>	<p>Reflects on new understandings to suggest ways of minimising risks to health. Reflects on the influence of culture when making health-related choices.</p> <p>Questions 15–17</p>	
<p>↑</p> <ul style="list-style-type: none"> <li>◀ Makes a valid judgment of the fairness of the investigation based on well-justified decisions about the control of all relevant variables.</li> <li>◀ Describes two valid, specific reasons for a possible difference between measured and labelled sugar content.</li> <li>◀ Provides valid explanations for decisions about the control of some variables and partially justifies a judgment of the fairness of the investigation. Makes an accurate comparison of measured and labelled sugar content and provides a valid reason for a possible difference.</li> <li>◀ Makes a superficial judgment about one of the following: control of a variable, fairness of the investigation, a reason for difference between measured and labelled sugar content.</li> </ul>	<p>↑</p> <ul style="list-style-type: none"> <li>◀ Fully describes the functions of the specified parts of the digestive system.</li> <li>◀ Consistently makes correct word choices to describe how the body processes sugar.</li> <li>◀ Correctly names the specified parts of the digestive system and describes a function of most parts. Makes word choices to correctly describe most aspects of how the body processes sugar.</li> <li>◀ Either correctly names some parts of the digestive system or makes some correct word choices to describe how the body processes sugar.</li> </ul>	<p>↑</p> <ul style="list-style-type: none"> <li>◀ Considers all relevant information about glycaemic index and insulin resistance to draw valid conclusions and offer full explanations.</li> <li>◀ Interprets graphical data to clearly and accurately describe changes to blood glucose levels. Draws a valid conclusion about the effects of abnormal glucose levels.</li> <li>◀ Determines the duration of exercise required to use the energy in soft drink. Uses graphical data to broadly describe changes to blood glucose levels. Draws a valid conclusion about the effects of excess sugar.</li> <li>◀ Some success in determining the duration of exercise required to use the energy in soft drink. Either provides a partial description or draws a conclusion.</li> </ul>	<p>↑</p> <ul style="list-style-type: none"> <li>◀ Considers all relevant understandings in justifying a range of specific recommendations to minimise health risks.</li> <li>◀ Gives a well-reasoned explanation of cultural influence on a poor health choice.</li> <li>◀ Considers some new understandings in justifying general recommendations to minimise health risks.</li> <li>◀ Gives an example of a culturally influenced poor health choice.</li> </ul>	<p><b>A</b></p> <hr/> <p><b>B</b></p> <hr/> <p><b>C</b></p> <hr/> <p><b>D</b></p> <hr/> <p><b>E</b></p>

Feedback .....

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