

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	
Analyses an investigation for fairness of design and implementation. Questions 1–4	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. Questions 5–6	Analyses experimental evidence, graphical data and information to explain patterns and draw conclusions. Questions 7–14	Reflects on new understandings to suggest ways of minimising risks to health. Reflects on the influence of culture when making health-related choices. Questions 15–17	
<div>◀ Makes a valid judgment of the fairness of the investigation based on well-justified decisions about the control of all relevant variables.</div> <div>◀ Describes two valid, specific reasons for a possible difference between measured and labelled sugar content.</div> <div>◀ 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.</div> <div>◀ 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.</div>	<div>◀ Fully describes the functions of the specified parts of the digestive system.</div> <div>◀ Consistently makes correct word choices to describe how the body processes sugar.</div> <div>◀ 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.</div> <div>◀ Either correctly names some parts of the digestive system or makes some correct word choices to describe how the body processes sugar.</div>	<div>◀ Considers all relevant information about glycaemic index and insulin resistance to draw valid conclusions and offer full explanations.</div> <div>◀ Interprets graphical data to clearly and accurately describe changes to blood glucose levels. Draws a valid conclusion about the effects of abnormal glucose levels.</div> <div>◀ 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.</div> <div>◀ 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.</div>	<div>◀ Considers all relevant understandings in justifying a range of specific recommendations to minimise health risks.</div> <div>◀ Gives a well-reasoned explanation of cultural influence on a poor health choice.</div> <div>◀ Considers some new understandings in justifying general recommendations to minimise health risks.</div> <div>◀ Gives an example of a culturally influenced poor health choice.</div>	<div>A</div> <div>B</div> <div>C</div> <div>D</div> <div>E</div>

Feedback

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