

Guide to making judgments — Year 4 Science

Name

Focus: Use fair tests to relate the properties of materials to their purpose.

Knowledge and understanding	Investigating	Investigating	Communicating	Reflecting	
Identifies properties of materials and understands that materials are chosen for a purpose because of their properties. Questions 1–3	Poses a simple question, makes a prediction to be tested, identifies elements of and plans a fair investigation. Questions 4, 7, 8, 11, 12	Collects and organises data and observations. Draws a conclusion supported by the data and the identified properties of materials. Questions 5, 6, 9	Uses scientific terminology and appropriate formats to communicate properties of materials, observations, explanations and a method in investigations. Questions 6, 12 and throughout	Reflects on learning to evaluate a prediction and to identify a future application of a new material. Questions 10, 13	
Identifies properties and materials appropriate for making toy planes. Relates properties to purpose.	Writes a method that controls variables. Comments on the fairness of the test using evidence from tables. Writes a method that measures/ observes the flexibility of woods.	Explains conclusion with reference to a scientific idea or states a cause and effect. Records observations that affect the data. Links the conclusion to a property of the material.	Consistently uses scientific terminology. Communicates a method using a logical and concise procedural format.	Explains how all of the listed properties are useful for the suggested purpose. Evaluates the prediction with reference to thinking, learning or evidence.	A
Identifies properties of given materials and the purpose of the object.	Makes a prediction based on the properties of the materials. Poses a relevant focus question and identifies elements to be changed, measured/observed and controlled.	Accurately calculates the totals in the data table and uses them to draw a conclusion.	Uses scientific terminology to communicate properties, observations, explanation or method.	Provides a relevant reason for why the prediction is/is not correct. Links at least one property of the new material to the suggested purpose.	B
Identifies properties.	Writes a statement or open focus question. Makes a prediction.	Records data and relevant observations.	Communicates a sequenced method.	Suggests a purpose for a new material and restates the relevant properties.	C
			Communicates properties, observations, explanations or method.		D
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Feedback

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