

Characteristic properties

STUDENT BOOK pp. 21, 43

1. Which of the following statements does **not** describe a characteristic property?

- a) A characteristic property helps to identify a substance or group of substances. ☐
- b) A characteristic property helps to tell how a substance or object will affect its environment. ☐
- c) A characteristic property helps to determine how a substance or object can be used. ☐
- d) A characteristic property helps to tell how much of a substance will be produced. ☐

2. Are the following items characteristic or non-characteristic properties? Check the correct answer.

	Characteristic property	Non-characteristic property
a) Temperature at which ice melts	<input type="checkbox"/>	<input type="checkbox"/>
b) Size of an object	<input type="checkbox"/>	<input type="checkbox"/>
c) Amount of juice indicated on a container	<input type="checkbox"/>	<input type="checkbox"/>
d) Density of a substance	<input type="checkbox"/>	<input type="checkbox"/>
e) Genetic code of a bee	<input type="checkbox"/>	<input type="checkbox"/>
f) Electrical conductivity of copper wire	<input type="checkbox"/>	<input type="checkbox"/>
g) Acidity of vinegar	<input type="checkbox"/>	<input type="checkbox"/>
h) Shape of a wooden board	<input type="checkbox"/>	<input type="checkbox"/>
i) Hardness of a diamond	<input type="checkbox"/>	<input type="checkbox"/>
j) Mass of a ball	<input type="checkbox"/>	<input type="checkbox"/>

3. Name the characteristic property described in each statement below. Choose from among the properties listed in the box.

Ductility	Acidity	Density
Melting point	Boiling point	Solubility

- a) Aluminum melts at a temperature of 660 °C.
- b) A mass of 1 g water occupies a volume of 1 mL.
- c) Copper is very useful for making electrical wire.
- d) Sugar readily dissolves in water.
- e) Ethanol boils at a temperature of 78 °C.
- f) Unpolluted rainwater has a pH of 5.6.
