

Worksheets 1.4A–C

An investigation using hydrogencarbonate indicator

- 1 To allow the gases to move from the organisms to the indicator, but stopped the organisms from falling into the indicator.
- 2 To make sure that gases produced by the organisms stayed inside the tube, where they would affect the indicator.
- 3 Any two from: the size and shape of the test tube; the volume of hydrogencarbonate indicator; the height of the platform above the indicator; the mass of the organisms or beads used in each tube.
- 4 For example:

Tube	Contents	Colour of indicator at start	Final colour of indicator
A	live maggots	red	yellow
B	dead seeds	red	red
C	live germinating seeds	red	yellow
D	plastic beads	red	red

For Worksheet 1.4A

- 5 A and C
- 6 They contained living organisms, which respired and produced carbon dioxide.

For Worksheet 1.4B

- 5 The indicator in tubes A and C went yellow, showing that a lot of carbon dioxide was present. This was produced by the organisms in these test tubes, which respired. There was no respiration in tubes B or D, so the indicator stayed red because there was no carbon dioxide produced.

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