

Unit 1

Answers

- 1 a to make chlorophyll [1]
 b The more magnesium a plant is given, the more new leaves it produces. [1]
 c Table drawn with ruled columns and rows and all entries correct. [1]
 Each column with a full heading, including units. (Units not to be in cells.) [1]

mass of magnesium in g	number of new leaves
0.5	3
1.0	5
1.5	6
2.0	4
2.5	1

- 2 67 million years ago, an **asteroid** collided with the Earth.
 This filled the air with dust. Less light could reach the ground, so plants could not **photosynthesise**.
 The **climate** of the Earth changed, as it became cooler.
 Many animals could not survive, because they did not have enough food. There was a **mass** extinction.
 One mark for any **two** correct words [2]
- 3 a Decomposers obtain their carbon from dead animals and plants. [1]
 Combustion of fossil fuels adds carbon dioxide to the air. [1]
 b Chloroplast is part of a plant cell where photosynthesis takes place. [1]
 Chlorophyll is a green pigment / substance that absorbs light energy for photosynthesis. [1]

[Total: 10]