# > Workbook answers

## Chapter 1

#### Exercise 1.1

Description Learning making more of martrition. the same kind of organism removing waste. respiration. products of metabolism. a permanent strowth. increase in size and dry mass taking in materials excretion for energy, growth. and development chemical reactions that release energy reproduction. firem matrient. medecules.

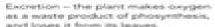
3 Points that learners may make include:

Birds are living things because they are able to carry out all seven characteristics: they can move of their own accord; they can reproduce; they respire; they are sensitive to changes in their environment; they grow; they excrete; they take in nutrients.

Aeroplanes are able to move, and they also take in 'nutrients', in the form of fuel. They combine oxygen with fuel to provide energy for their movement, which is similar to respiration, and this reaction produces waste products removed in the exhaust, which is similar to excretion. They have sensors that can detect and respond to changes in their environment – for example, they may have lights that come on automatically when light intensity in their surroundings falls below a particular level. However, aeroplanes do not grow, and they are not able to carry out all seven characteristics, they are not alive.

2 Growth – the plant makes new cells so it increases in size. —

> Reproduction – gametes are made in the flower, which fuse together to produce a zygote, this is sexual reproduction. (Note: If students have not previously studied reproduction, accept an answer that refers simply to reproduction as making more of the same species.)



Sensitivity - the plant senses the direction from which light comes, and the stem and leaves grow towards it.



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Shasha Hu

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