

Chapter 1 Review Day

Topic 1

The characteristics of living things

Sample Question:

Using the 6 characteristics of living things, explain why scientists consider a cactus to be a living organism but a plastic cactus to be non-living. Be sure to address each of the 6 characteristics in your explanation.

Topic 2

The needs of living things

Sample Question:

Describe how you pet or a friend's pet, meets its needs as a living thing. Explain all 5 needs.

Topic 3

Controlled experiments

Sample Question

- p 36 #'s 22-25

Topic 4

Taxonomy of living things

Sample Question:

- Which two of the following organisms are most closely related?
Entamoeba histolytica, *Escherichia coli*, or *Entamoeba coli*? Explain how you know this is true.
- p 37 #'s 3-4

Topic 5

Domains and Kingdoms

- Based on their characteristics, classify each organism into the best domain.

1) Mushroom

- heterotroph
- multicellular
- has a nucleus in its cell

2) Kelp

- autotroph
- multicellular
- has a nucleus in its cells

3) Lion

- heterotroph
- multicellular
- has a nucleus in its cells

4) *E. Coli*

- heterotroph
- unicellular
- genetic material is not in a nucleus
- lives in any place with enough warmth and water.

5) *Haloquadratum walsbyi*

- autotroph
- unicellular
- genetic material is not in a nucleus
- lives in extreme environments