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Chapter 10: Diversity of Life 1

Classification

Circle the correct answer:

- 1. Linnaean classification involves grouping species together based on how [similar] [different] they are.
- 2. Fill in the levels of Linnaean classification from the largest group to the smallest group.

<u>Ningdom</u>

Circle the correct answers:

Species

3. The scientific name of a species consists of its [genus] [family] [species] name and its [genus] [family] [species] name.

Earth is home to as many as 10 million different species! Humans are just one of these.





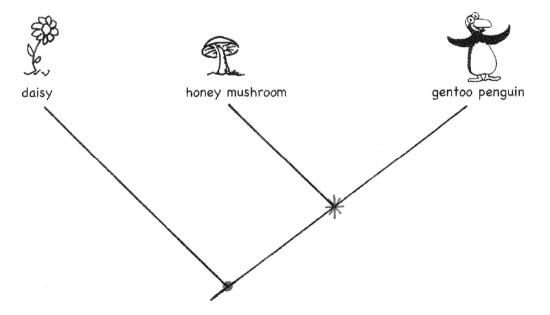
Name	Class	Date
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Chapter 10: Diversity of Life 1

Evolutionary Trees

Circle the correct answers:

- 1. Biologists now try to classify organisms based on how [similar] [closely related] they are to each other.
- 2. The evolutionary tree below shows how three species—the daisy, the honey mushroom, and the gentoo penguin—are related.



- a. This evolutionary tree tells us that the [daisy] [honey mushroom] [gentoo penguin]
 and [daisy] [honey mushroom] [gentoo penguin] are more closely related to each
 other than either is to the [daisy] [honey mushroom] [gentoo penguin].
- b. Place a dot at the point when the lineage that eventually gave rise to daisies split from the lineage that eventually gave rise to gentoo penguins.
- c. Now place an asterisk at the point when the lineage that eventually gave rise to honey mushrooms split from the lineage that eventually gave rise to gentoo penguins.



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Chapter 10: Diversity of Life 1

Bacteria and Archaea

	Fil	l in	the	bi	lanks
--	-----	------	-----	----	-------

1. The three domains of life are

	, and	
Of the 3 domains,	and	_ consist of
prokarvotes and	consists of eukaryotes	

Circle the correct answers:

- 2. a. Are there any bacteria that can make their own food through photosynthesis, the way plants do? [Yes] [No
 - b. Are there any bacteria that get their food from other organisms, the way animals do? [Yes] [No]
- 3. Bacteria reproduce [sexually] [asexually].
- 4. Bacteria that live on our bodies benefit us by

[producing vitamins]

[keeping dangerous bacteria from invading our bodies]

[both of these].

- 5. Are all archaea extremophiles? [Yes] [No]
- 6. Some chemoautotrophs make food using

[chemical energy]

[energy from sunlight].

In life, it's the stuff you can't see that does us the most damage.



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Chapter 10: Diversity of Life 1 Domain Eukarya and Protists

Dui	nain Lukarya ana 1 rousis			
1. A	All the living things found in the domain Euka	ırya have	[prokaryotic cells]	[eukaryotic cells]
2. N	Name the four kingdoms that make up the dor	nain Euka	rya.	
_				
_				
_				
	Protists get food from photosynthesis or from the correct column.	other orga	nisms. Place the prot	ists below into
A	Amoebas			
K	Kelp			
Ι	Diatoms			
C	Ciliates			
P	Plasmodium, the protist that causes malaria			
<u>(</u>	Get food from photosynthesis	Get food	from other organism	1 <u>S</u>





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Chapter 10: 11: Diversity of Life 1 *Plants*

1	Match	the	following	plant	structures	with	their	function
1.	IVIACCII	uic	10110 W III E	prant	su actures	WILLI	uicii	Tunction

Roots ____

a. Distributes water and other resources

Shoots _____

b. Conduct photosynthesis

Vascular system _____

c. absorb water and nutrients from soil

Circle the correct answers:

- 2. Mosses [do] [do not] have vascular systems whereas ferns
 - [do] [do not] have vascular systems.



- 3. [Mosses] [Ferns] [Mosses and ferns] [Seed plants] have to live in a moist environment because sperm swim through the environment to fertilize eggs.
- 4. Describe each structure and write the name of the group of plants that possesses each of the structures.

Structure Description	Plant group in which structure is found
Pollen	
Seed	
Flower	
Fruit	
Cone	



