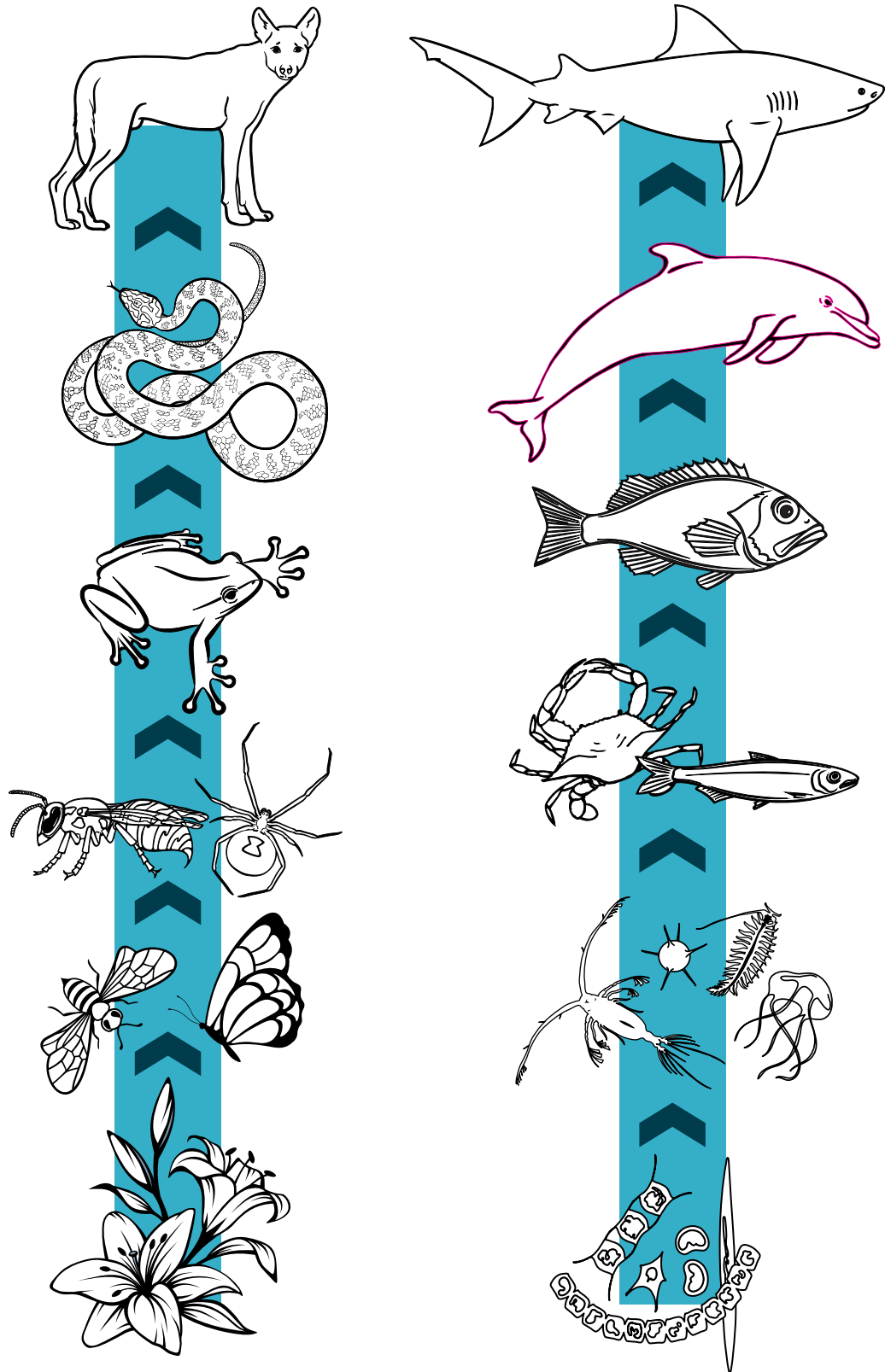
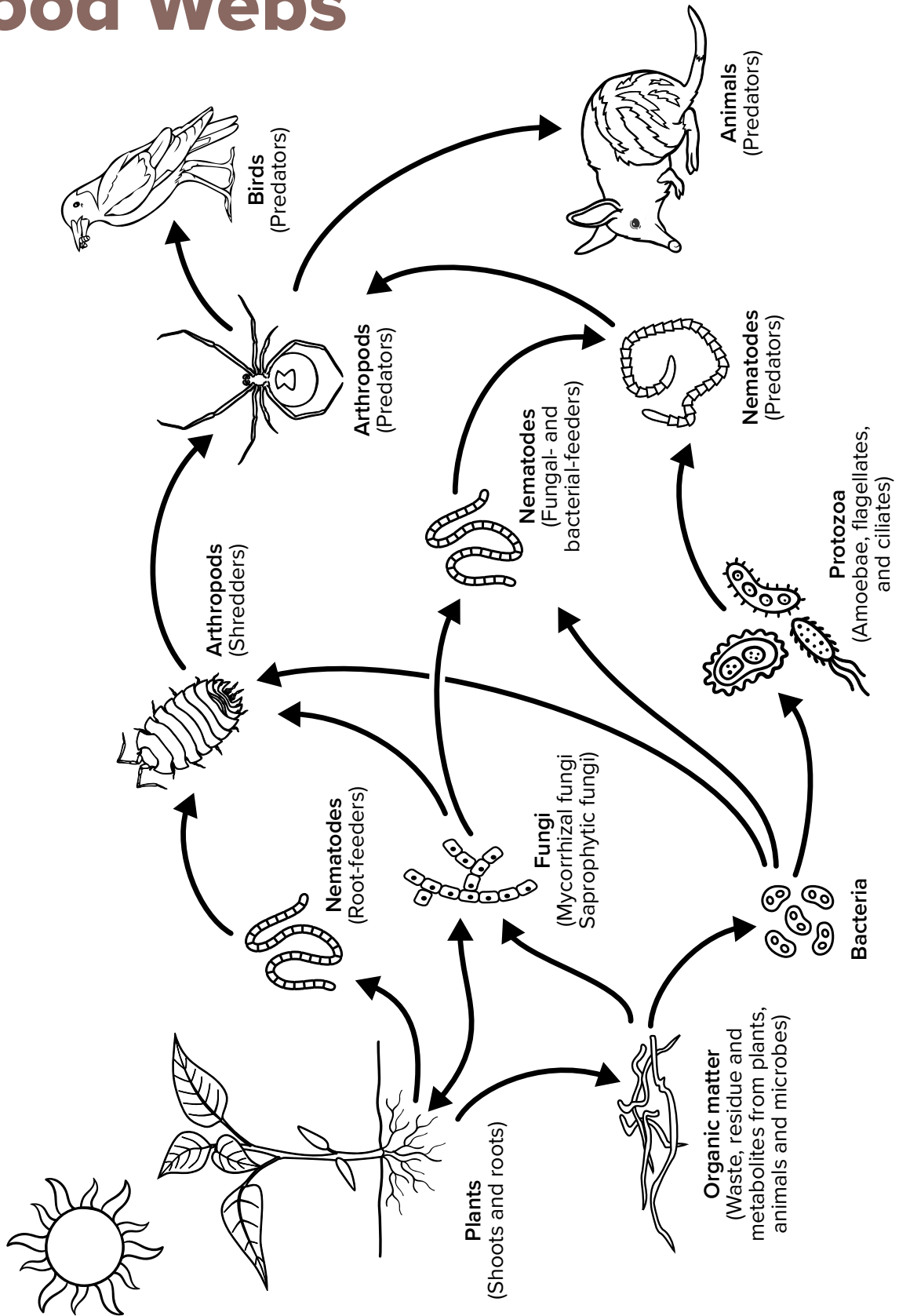


Food Chains



This resource has been developed by:

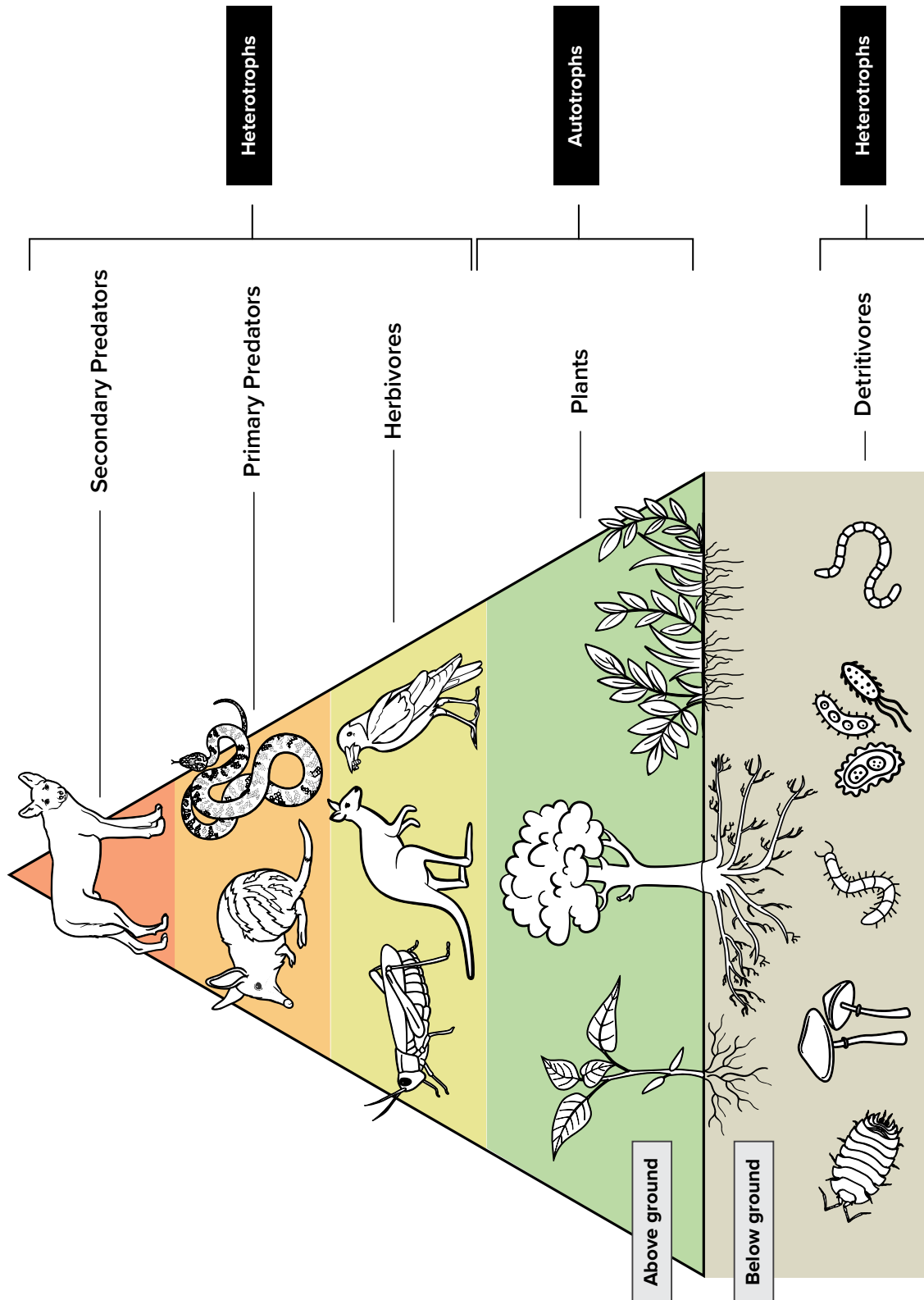
Food Webs



This resource has been developed by:



Food Webs (cont.)



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Food Chains/Webs

Keywords



Match up the key words to their definitions.

Saprotroph

Obtains nutrients and energy from other organisms

Autotroph

Fourth organism in a food chain/web

Heterotroph

Consumes animals for energy

Herbivore

Obtains energy from decaying organic matter

Carnivore

Converts sunlight into energy

Decomposer

Breaks down dead material

Primary consumer

Consumes both animals and plants

Producer

Second organism in a food chain/web

Secondary consumer

Obtains energy through the consumption of plants

Tertiary consumer

Produces energy through sunlight or chemicals

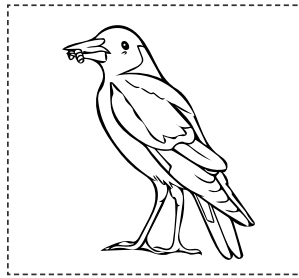
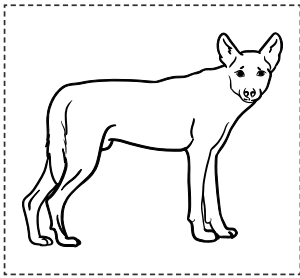
Omnivore

Third organism in a food chain/web

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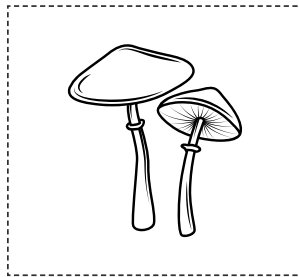
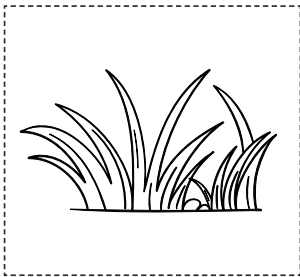
Simple Food Web

Step 1 – Use scissors to neatly cut out each individual image and word tile below.



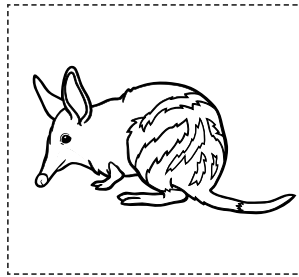
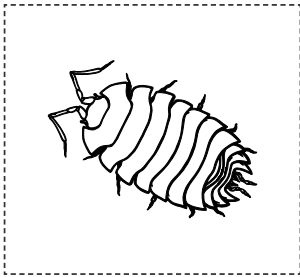
Producer

Primary consumer

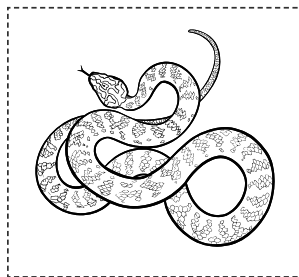
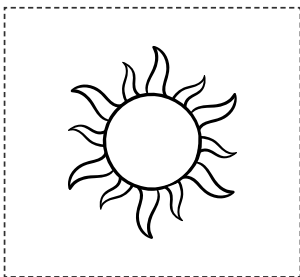


Secondary consumer

Tertiary consumer



Decomposer



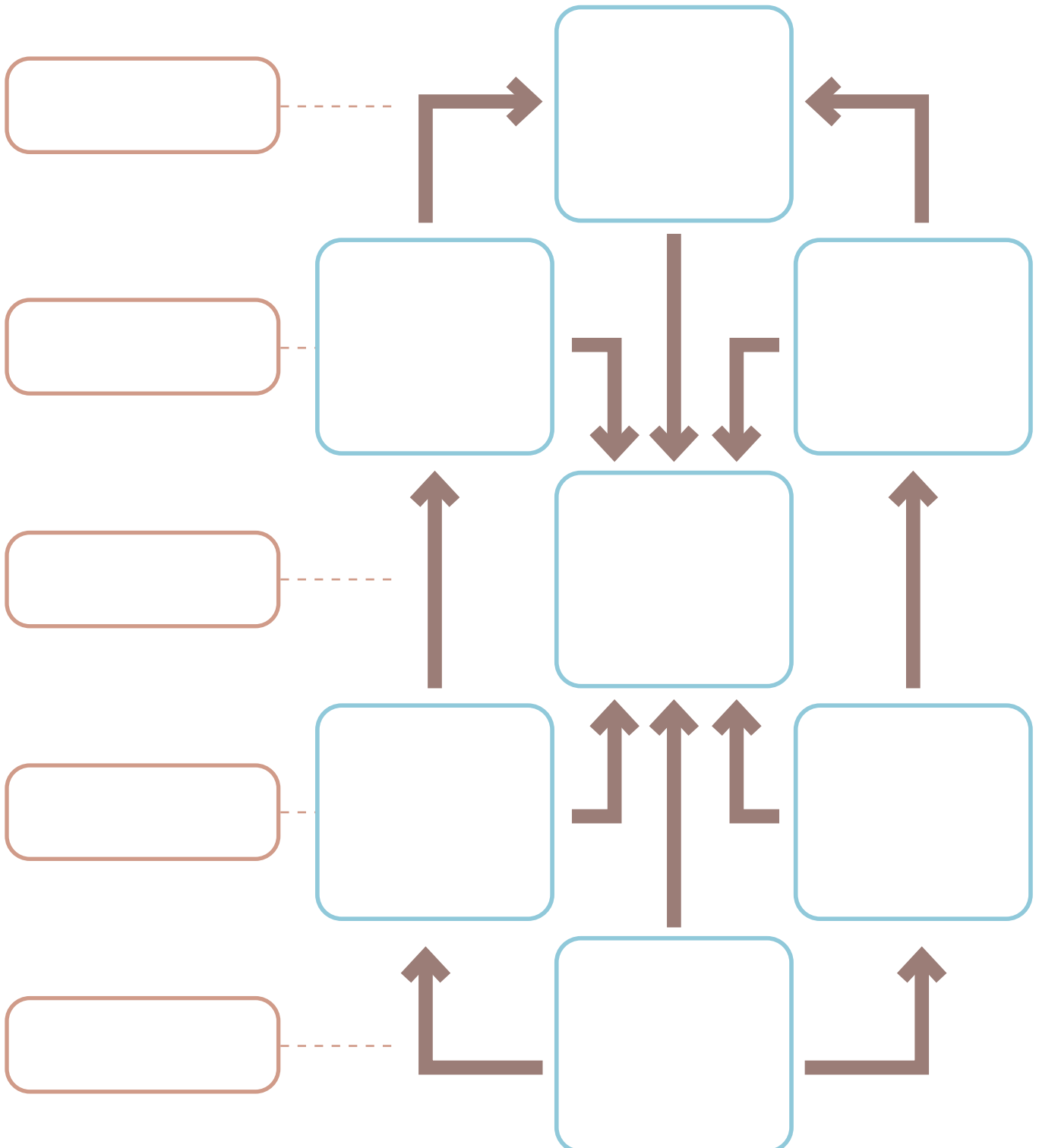
This resource has been developed by:



Simple Food Web (cont.)

Step 2 – Organise the hierarchical levels in an ecosystem on the left-hand side and then place the image tile of each organism into the correct boxes.

Note: Arrows show the direction of flow of energy through an ecosystem.



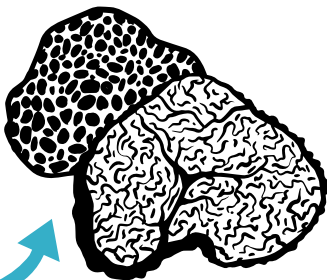
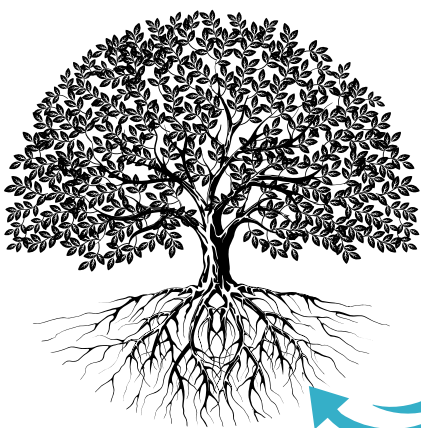
This resource has been developed by:

Fungi in Ecosystems

Decomposers/Symbiosis

Click on the following links to learn more about fungi in the ecosystems.

- ▶ Fungi and the Wood Wide Web (5:00) <https://www.youtube.com/watch?v=vYoRMT1szdU&list=PL4VpwshlrMrKosM2nxBgMgXbqg68InJ0w&index=6>
- ▶ How trees secretly talk to each other (1:48) <https://www.youtube.com/watch?v=yWOqeyPIVRo&list=PL4VpwshlrMrKosM2nxBgMgXbqg68InJ0w&index=8>
- ▶ Decomposing Fungi (1:48) <https://www.youtube.com/watch?v=IMW0mCcxUjw>
- ▶ Mushrooms: Diligent Decomposers (1:09) https://www.youtube.com/watch?v=HCIGL_Ab3bo



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Fungi Poster Ideas

Create a poster to showcase the role that fungi play in ecosystems.



Mushrooms



- Where are mushrooms found?
- What is the role of a mushroom?
- How many different types of mushrooms are there?

Mycorrhiza



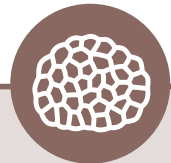
- What are mycorrhiza?
- Do all plants have mycorrhizal relationships?
- What role do mycorrhiza play?

Decomposer



- What is the role of decomposers?
- What kind of organisms can be decomposers?
- Where are decomposers found?

Types of Fungi



- Fungi as decomposers.
- Fungi as symbionts.

Energy



- Where do fungi fit in the ecosystem?
- What role do fungi play in the transfer of energy in an ecosystem?
- How do fungi recycle nutrients?

Fantastic Fungi



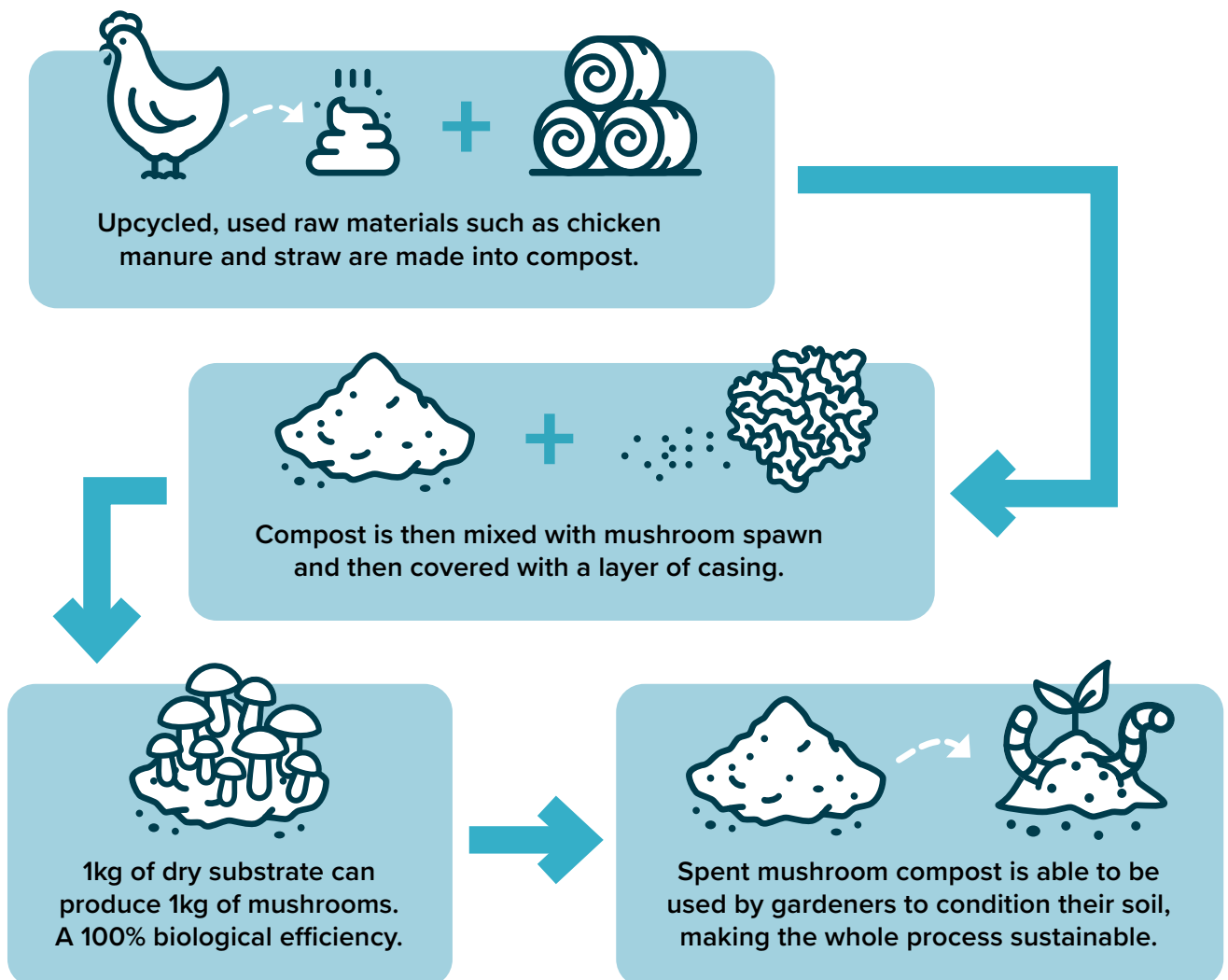
- A type of fungi is the largest organism on Earth, can you find it?
- How many types of edible fungi are there?
- How do humans utilise fungi?
- Are fungi dangerous?

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Mushrooms and Energy

Learn about how mushrooms are produced, including the energy requirements of mushroom production and how it is considered a highly sustainable industry.

- ▶ Mushroom sustainability <https://www.americanmushroom.org/main/sustainability/>
- ▶ Biological efficiency of mushroom growing <https://learn.freshcap.com/growing/mushroom-yield-and-biological-efficiency/#:~:text=Because%20the%20calculation%20uses%20the,a%20substrate%20over%20multiple%20flushes>



Student task

Research the ideal biotic and abiotic features that promote optimal mushroom growth and development.



This resource has been developed by: