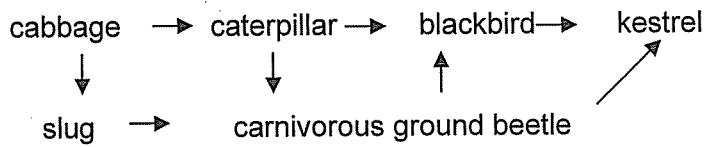


Task 1: Food chains

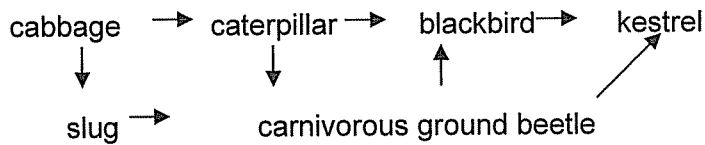
- Research food chains and food webs on BBC bitesize or in a text book.
- Answer the questions in the boxes below.

In a simple food web of:



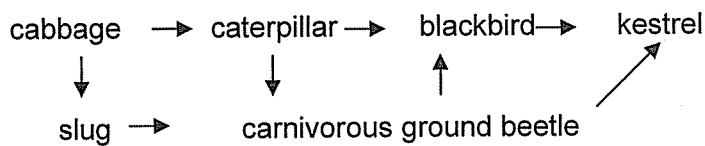
What organism would have the most biomass?

In a simple food web of:



What consumers would you expect to be in the greatest numbers?

In a simple food web of:



Which organisms are both predator and prey?

Kyle says "A plant photosynthesises in the day and respires at night."  
What is wrong with his statement?

A cow is both a herbivore and a ..... whereas a lion is a carnivore, predator and a .....

Kyle says "Animals respire but plants photosynthesise."  
This statement is misleading. How could you improve the statement?

**Task 2:** Make 5 correct sentences by choosing a word or phrase from box 1 followed by box 2. Words or phrases can be used more than once.

Box 1
food chains energy flows many organisms

Box 2
depend on each other for energy link to each other from one organism to another organisms there are at each stage in the food chain

1 A food chain shows how

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2 A food web shows how

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---

3 A pyramid of numbers shows how

---

---

4 A food chain shows how

---

---

5 A food web shows how

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Task 3: Ecology key terms

**Task 3:** Complete the sentences below by choosing the **best** explanation to explain each statement.

Explanation
<ul style="list-style-type: none"><li>• the energy is transferred from producer to consumer.</li><li>• only plants can make their own food.</li><li>• larger animals will eat several smaller ones.</li><li>• the amount of available food changes.</li><li>• they cannot make their own food (from sunlight).</li><li>• they have similar features.</li><li>• organisms may be involved in more than one chain.</li></ul>

1 Related animals can be grouped together because

---

---

2 Arrows flow from producer to consumer in a food chain because

---

---

3 Photosynthesis is important to humans because

---

---

4 Pesticides can build up in a food chain because

---

---

5 Habitats may cause changes for animals because

---

---

6 Food webs give more information than food chains because

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7 Without plants we could not survive because

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**Task 4:** Choose the **best** statement to match each explanation. Write the correct statement on the lines below.

*Statements*

- Hot things cool down and cold things warm up
- When energy is transferred it becomes less useful
- Fuels are useful
- The total amount of energy is always the same before and after something happens
- The batteries in an electric circuit go flat
- Plants do not need to eat food
- Respiration and combustion are similar processes
- People who eat too much get fatter
- Ordinary light bulbs are not very efficient
- Energy cannot be transferred to the earth from the sun by conduction or convection

- 1 \_\_\_\_\_  
it is spread out into smaller amounts in lots of places.
- 2 \_\_\_\_\_  
energy cannot be created or destroyed.
- 3 \_\_\_\_\_  
they get the energy they need from the Sun.
- 4 \_\_\_\_\_  
they are chemical reactions that transfer energy to the surroundings.
- 5 \_\_\_\_\_  
they store the extra energy in their bodies as fat.
- 6 \_\_\_\_\_  
there are no particles in space.
- 7 \_\_\_\_\_  
they transfer much more energy to the surroundings by heating than by light.
- 8 \_\_\_\_\_  
energy is transferred by heating.
- 9 \_\_\_\_\_  
all of the stored energy has been transferred to the circuit and the surroundings.
- 10 \_\_\_\_\_  
they are concentrated stores of energy.

**Task 5:**  
**Key definitions: complete the table below.**

Key Term	Definition
Atom	
Element	
Periodic Table	
Transition metals	
Compound	
Mixture	
Physical properties	
Chemical properties	
Chemical reaction	
Word equation	
Symbol equation	

**Task 5:**  
**Key definitions: complete the table below.**

Key Term	Definition
Magnet	
Electromagnet	
Repel	
Attract	
Steel	
Alloy	
Current	
Voltage	
Series circuit	
Parallel circuit	