

Percentage	I can ...	Prove it!
	<p>I can evaluate a topic by presenting the positives and negatives before reaching a conclusion. I can defend my judgement using a variety of evidenced points.</p> <ul style="list-style-type: none"> <li>• Arguments that support the statement. Why is it correct?</li> <li>• Arguments against the statement? Why is it incorrect? Suggest a minimum of two alternative options explaining how they would impact differently.</li> <li>• Overall do you agree or disagree with the statement and why? Use evidence to back up your points.</li> </ul>	<ol style="list-style-type: none"> <li>1) Research producers and consumers that live in the desert ecosystem. Using your research create a food web for this ecosystem with a minimum of 16 organisms.</li> <li>2) Overcultivation is the number one cause of desertification. To what extent do you agree with this statement?</li> <li>3) Afforestation is the best way to reduce the risk of desertification. To what extent do you agree with this statement?</li> <li>4) Case Study: how have humans living in the Sahara desert created economic opportunities and what challenges have they faced to reach their goal?</li> </ol>
	<p>I can compare two or more factors using detailed evidence to back up my comparison. I make sure I explain how they will impact differently.</p> <p>I can break information into parts.</p> <p>I can use specific case studies or examples to provide evidence in my work.</p>	<ol style="list-style-type: none"> <li>1) Identify the producers and consumers in the food web at the bottom of the learning ladder. Categorise the consumers into herbivores, carnivores and omnivores.</li> <li>2) Explain and describe the features of a small-scale ecosystem in the UK.</li> <li>3) Using a named example, explain how change can have short-term and long-term effects on an ecosystem.</li> <li>4) Describe the distribution of the ecosystems as you move north or south from the equator. Include two characteristics for each ecosystem.</li> <li>5) Describe how the sun's heating of our atmosphere affects global atmospheric circulation. (hint: Hadley cells, high pressure = air sinks, low pressure = air rises).</li> <li>6) Describe how the Coriolis Effect impacts prevailing wind directions.</li> <li>7) Using specific examples, describe the economic opportunities available in the desert.</li> <li>8) Using specific examples, describe how humans are causing desertification on the fringe of the Sahara Desert.</li> <li>9) Using specific examples, describe strategies that are used to reduce the risk of desertification in the Sahel.</li> </ol>



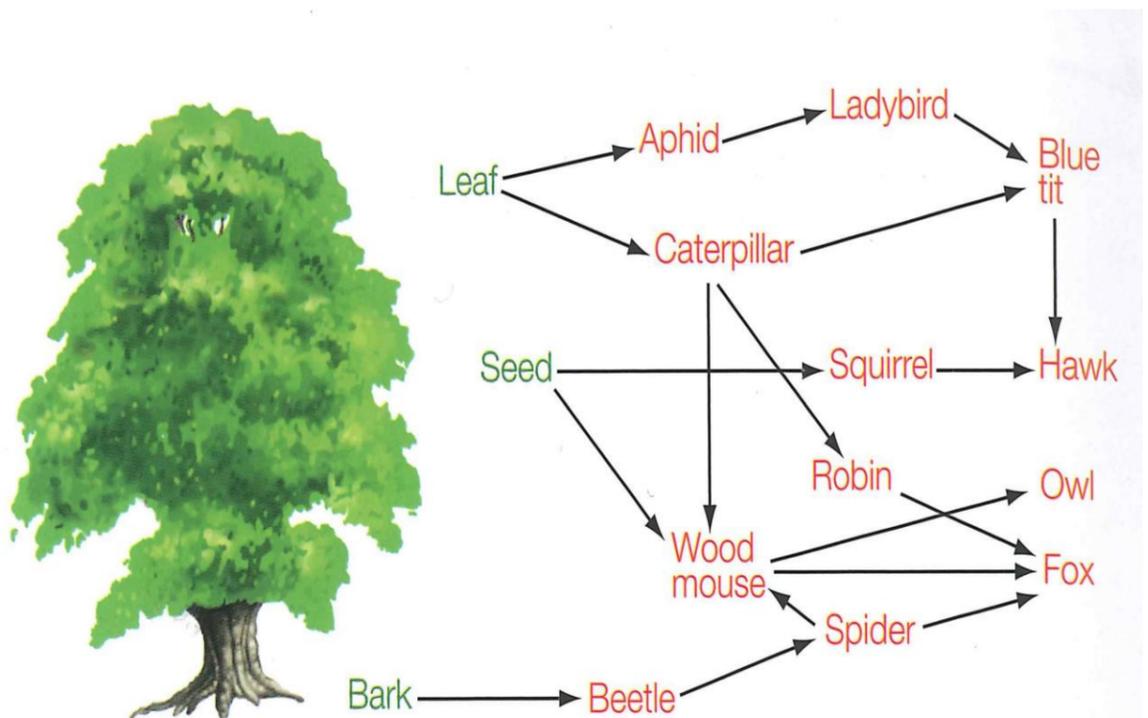
Percentage	I can ...	Prove it!
 <p>60%</p>	<p>I can demonstrate a clear understanding of facts and processes through explanation, which follows a detailed structure that ensures I explain my point/s to the fullest.</p> <ul style="list-style-type: none"> <li><i>I believe.....because..... This means that..... As a result.....</i></li> <li><i>I choose.....because..... This means that..... As a result.....</i></li> <li><i>One way is.....because..... This means that..... As a result.....</i></li> </ul>	<ol style="list-style-type: none"> <li>1) Explain why the wood mouse would be affected if there was an increase in the number of robins.</li> <li>2) Explain why the ladybird would be affected if there was an increase in foxes.</li> <li>3) Which ecosystem would you most like to live in and why? (include three reasons)</li> <li>4) Explain why the camel is suited to the desert and the chameleon is suited to the rainforest.</li> <li>5) Explain why cacti are suited to the desert.</li> <li>6) Explain why there is an arid climate at 30° north and south of the equator (deserts).</li> <li>7) Explain why the desert provides opportunities for economic development.</li> <li>8) Explain why the climate change cause challenges for businesses in the desert.</li> <li>9) Explain why population growth has caused desertification.</li> <li>10) Explain why climate change has caused desertification.</li> <li>11) Explain why afforestation, grazing rotation and building earth dams reduce desertification.</li> </ol>
 <p>48%</p>	<p>Demonstrate an understanding of facts and ideas through detailed description, which uses evidence to back up points.</p> <p><i>Make your point and then give two examples.</i></p> <ul style="list-style-type: none"> <li><i>Desert ecosystems are found..... For example..... The rainforest ecosystem is found... For example.....</i></li> <li><i>The desert has many unique characteristics. Firstly.....For example..... Secondly.....For example.....</i></li> <li><i>Plants in the desert have adapted to suit its arid climate and thin soils. Firstly.....For example..... Secondly.....For example.....</i></li> </ul>	<ol style="list-style-type: none"> <li>1) Describe the difference between a food chain and food web.</li> <li>2) Describe the differences between the three types of consumers (herbivore, carnivore and omnivore).</li> <li>3) Describe how nutrients and energy travel within an ecosystem.</li> <li>4) Describe how the food web at the bottom of the learning ladders shows that different parts of the ecosystem are linked to each other.</li> <li>5) Describe the location of the desert/rainforest ecosystem.</li> <li>6) Describe the key characteristics of two ecosystems of your choosing.</li> <li>7) Describe how plants adapt to the desert.</li> <li>8) Describe the challenges people in the desert experience.</li> <li>9) Describe how overgrazing, over-cultivation and deforestation have caused desertification.</li> <li>10) Describe three sustainable strategies to reduce the risk of desertification.</li> </ol>



Percentage	I can ...	Prove it!
<p>36%</p>	<p><b>I can recall facts, identify factors or points and organise my ideas in a logical way.</b></p> <p><i>The definition of.....is.....</i></p> <p><i>Two ways that.....</i></p>	<ol style="list-style-type: none"> <li>1) What is the definition of an ecosystem?</li> <li>2) List three ecosystems.</li> <li>3) What is the definition of a producer and what is an example?</li> <li>4) What is the definition of a consumer and what is an example?</li> <li>5) What is the definition of a decomposer and what is an example?</li> <li>6) Identify two food chains in the food web below.</li> <li>7) List the eight major ecosystems.</li> <li>8) What weather occurs in areas of low pressure?</li> <li>9) What weather occurs in areas of high pressure?</li> <li>10) List two characteristics of the desert.</li> <li>11) List two economic opportunities in the desert.</li> <li>12) List two challenges people in the desert face.</li> <li>13) What is the definition of sustainability?</li> <li>14) List two ways humans are causing desertification.</li> <li>15) List two sustainable strategies to reduce desertification.</li> </ol>

**Key Words**

- Ecosystem
- Food Chain/Food Web
- Producer
- Consumer (herbivore, carnivore, omnivore)
- Decomposer
- Desert
- Sahara
- Sahel
- Atmospheric Circulation
- Hadley Cell
- Coriolis Effect
- Prevailing Wind
- Economic Opportunity
- Desertification
- Sustainability
- Erosion



▲ Part of a food web (complete food webs are large and complicated)