


Year 7

Name:

Teacher:

Title: How do animals and plants live in deserts?

**Task 1:** Plants are adapted to live in the hot deserts. Below in the diagram are some ways cactuses are adapted to live in the hot and dry deserts!

<p>The cactus has spikes/spines instead of leaves. This is to <b>reduce the surface area</b> and reduce <b>water loss through transpiration</b> (water lost from evaporation in plants)</p>	<p>Having <b>spikes protects the plants</b> from animals that want to eat them for their water</p>	
<p>The skin is <b>thick and waxy</b> which helps <b>reflect the heat</b> and <b>conserve (hold) water</b></p>		<p>A <b>shallow network</b> just below the <b>surface</b> the can <b>soak up any rain water</b> quickly</p>

Explain the three ways that cactuses reduce water loss (transpiration).

1. Shallow network of roots =

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2. Thick and waxy skin =

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3. Spikes/spines and not leaves =

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**Task 2:** Using the success criteria in the green box below, design your own animal or plant species that lives in the desert.

Your design **must include labels that explain how it is adapted.**

**Success criteria:**

- How does your species store water for the hot and dry days? – *e.g. has an extra-large belly to store fat which can be broken down later into water.*
- How does your species stay warm during the night time when temperatures drop to 0°C? – *e.g. the animal buries itself underground in a burrow, and sleeps in the sand where it is warmer at night time*
- How is your species adapted to predators? *e.g. spikes or sharp claws to protect itself from being eaten*
- How does your species or plant make/find food? *e.g. hunts smaller animals for food*
- Where is your species in the food chain? *e.g. is a plant so is at the bottom of the food chain*

Name of species: \_\_\_\_\_

