

Exploring *The Sand Dunes*



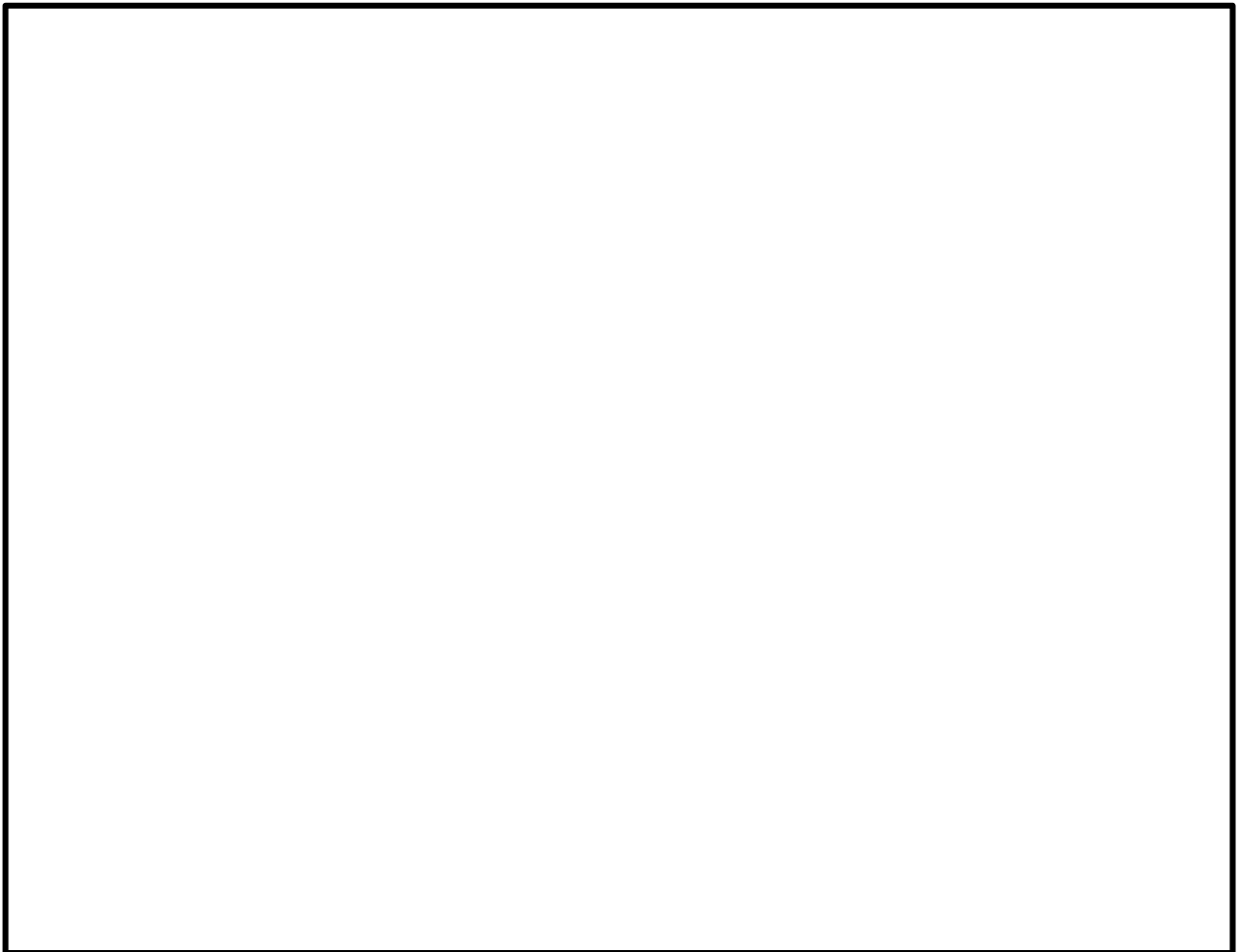
This book belongs to

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What are Sand Dunes?

A hill or ridge of sand piled up by the wind is called a sand dune. Dunes may form wherever there is a lot of loose sand and enough wind to move it. Beaches and deserts are common places for dunes.

When you pick up a handful of sand it just trickles away, through your fingers. Sand dunes are made from sand, dry, crumbly sand. They are hills of sand.



Draw or paste a picture of a Sand Dune

World Famous Sand Dunes

There is a Soorah by the name of Ahqaaf in the Qur'aan and according to Ibn Katheer Raheehamhullaah the famous scholar of Tafseer (Explanation of the Qur'aan) Ahqaaf means Sand Dunes or Sand Hills and Allaah says the People of Aad lived in the Sand Dunes in Yemen. But Allaah also created many other Sand Dunes in different parts of the world. Here are the names and the pictures of ten Sand Dunes. Can you find out where each of these Sand Dunes can be found and write them down? You can write some facts too.

Look for the Sand Dune Closest to where you live and paste a picture of that and write the details in the last box.

1. Sossusvlei



2. Erg Chebbi



3. Badain Jaran Dunes



4. Rub' al Khali



5. Death Valley



6. The Libyan Desert



7. Médanos de Coro National Park



8. Samalayuca Dune Fields



9. The Great Dune of Pyla



10. White Sands National Monument



Spot the Living Things in the Sand Dunes

Paste the Pictures write one fact about each of these living things that are found at sand dunes created by Allaah alone.

Glow worm

Cinnabar moth

**Cinnabar moth caterpillars
on ragwort**

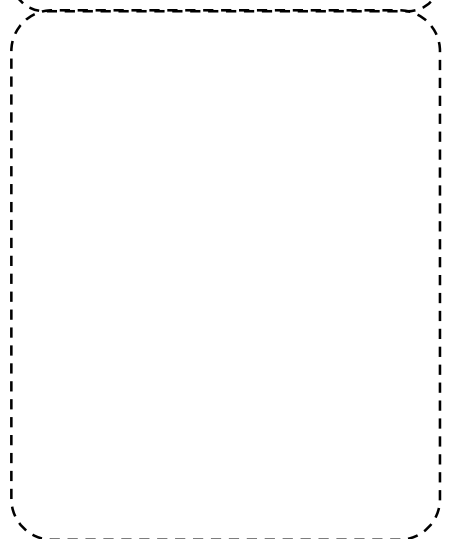
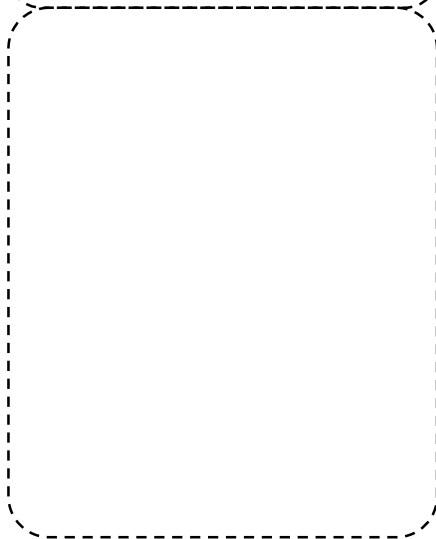
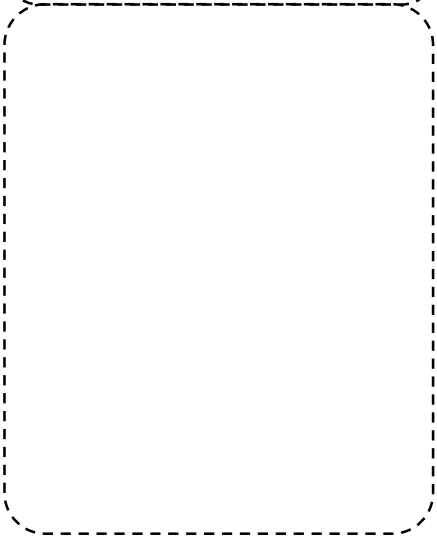
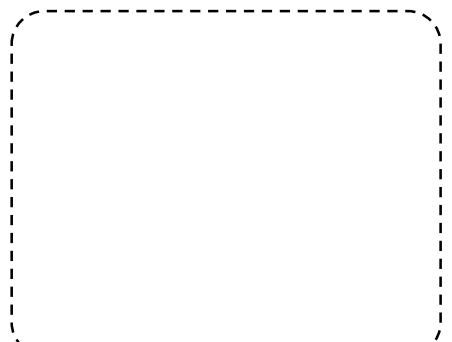
Common grasshopper

Banded Snail

Sand lizard

Slow worm

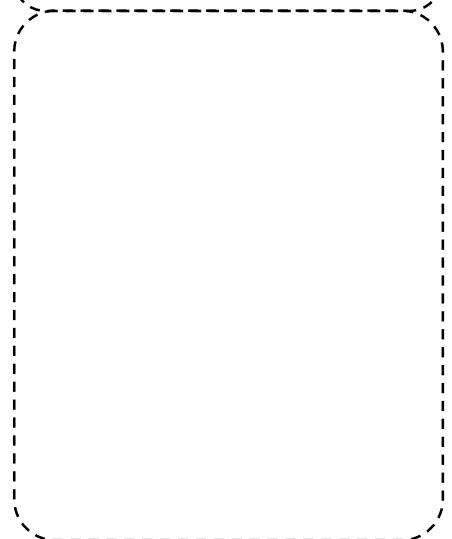
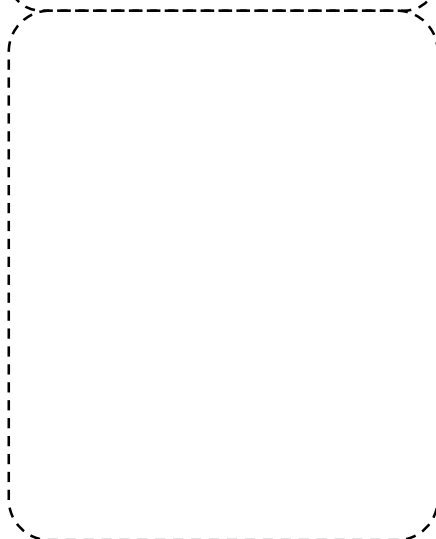
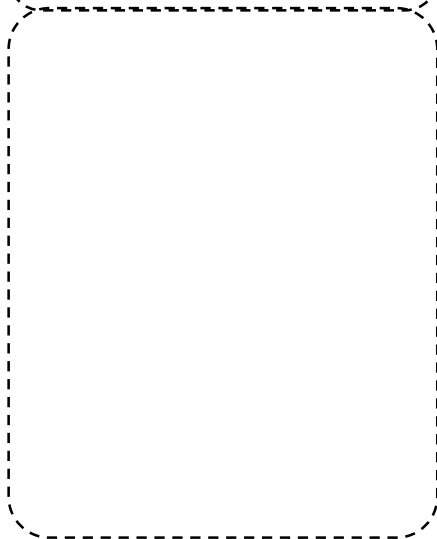
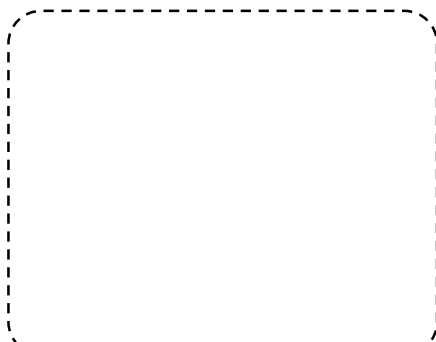
Adder



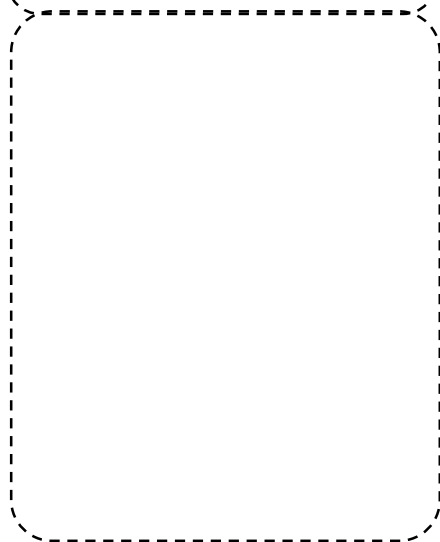
Rabbit

Burnet Rose

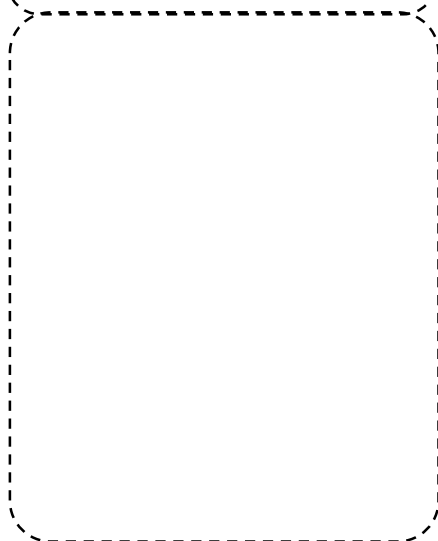
Restharrow



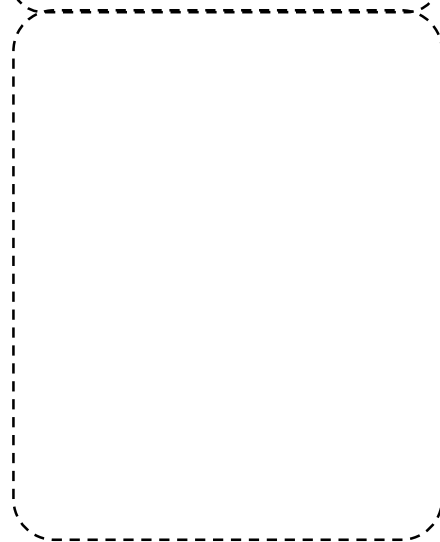
Ladies bedstraw



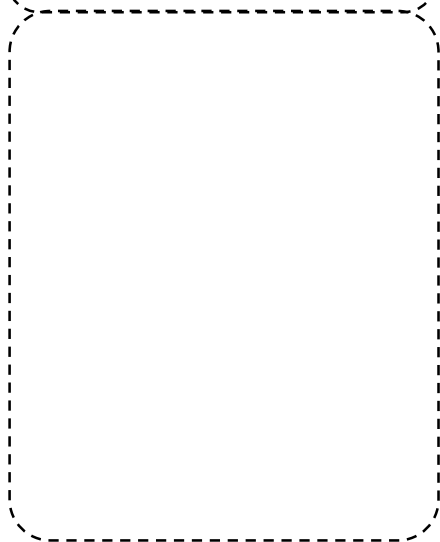
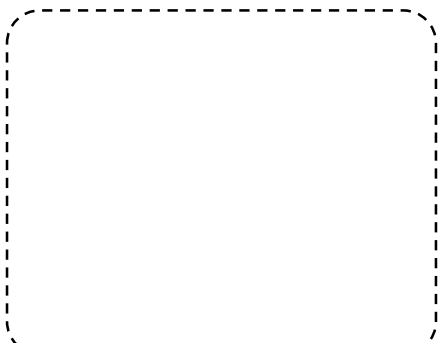
Sea holly



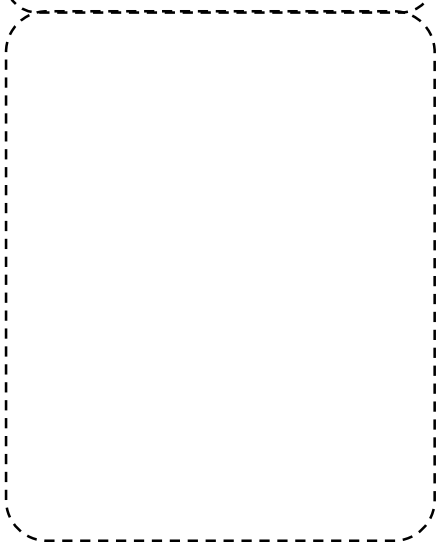
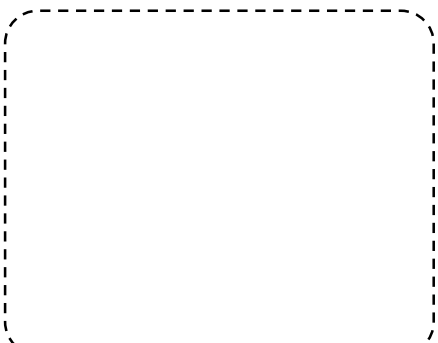
Viper's bugloss



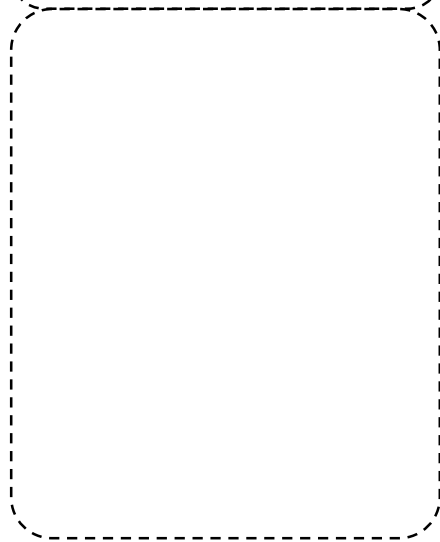
Wild thyme



Evening primrose



Marram grass



Glow worm



Common grasshopper



Viper's bugloss



Marram grass



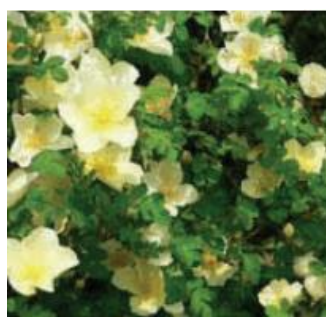
Cinnabar moth



cinnabar moth caterpillars on



Burnet rose



Restharrow



Marram grass



Wild thyme



Rabbit



Ladies



Banded snail



Sand lizard



Adder



Slow worm



Taken from:
http://www.nationalparks.gov.uk/learningabout/teachersarea/teaching-resources/ac_pc_sand_dune_fun/sand_dune_spotter_guide.pdf



Sea holly

Sand Dune Food Web

Allaah is the sole Provider for every living creature. It is only Allaah who gives us food as He is our Sustainer.

Every living plant and animal must have energy to survive. And Allaah is the only one who could provide all of them. He has created in such a way that plants rely on the soil, water, and the sun for energy, Animals rely on plants as well as other animals for energy.

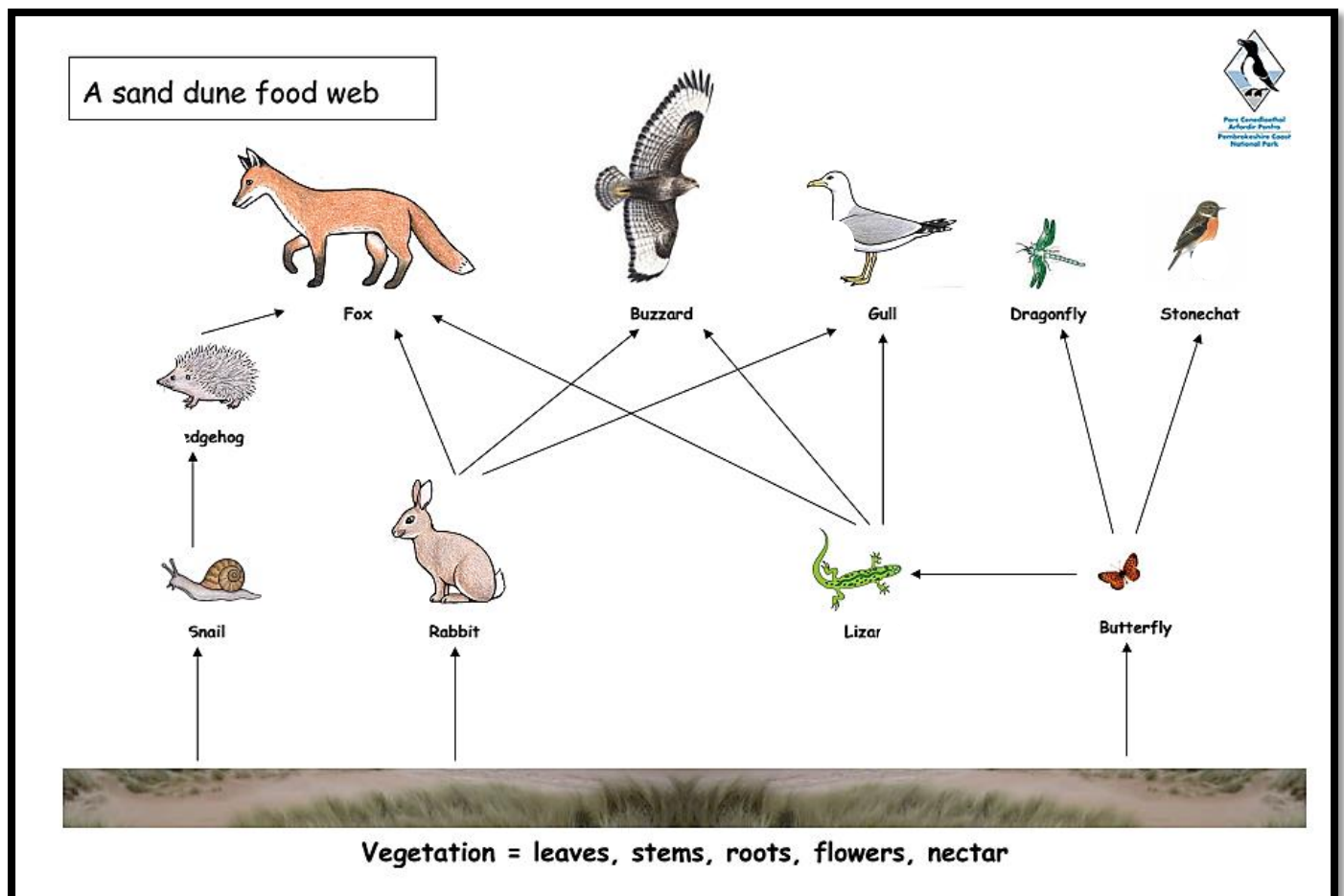
In an ecosystem, plants and animals all rely on each other to live. Scientists sometimes describe this dependence using a food chain or a food web.

A food chain describes how different organisms eat each other, starting out with a plant and ending with an animal. For example, you could write the food chain for a lion like this: grass ----> zebra ----> lion

In any ecosystem there are many food chains and, generally, most plants and animals are part of several chains. When you draw all the chains together you end up with a food web.

This is the Sand Dune Food Web

(taken from: http://www.nationalparks.gov.uk/learningabout/teachersarea/teaching-resources/ac_pc_sand_dune_fun/sand_dune_food_web.pdf)



Discuss with your teacher or parent the following

Changing Relationships

What do you think might happen if...

- The number of rabbits increases greatly
- Disease kills most of the rabbits
- A winter storm damages the plants in the dunes
- Sea buckthorn, an invading species of plant, takes hold on the dunes
- The National Park Authority decides on a project to increase the numbers of common lizards

All kinds of living things

What are the primary producers?

These are green plants which convert sunlight into nutrients and food.

What are herbivores?

Plant eating creatures.

What are carnivores?

Meat eating creatures.

Other creatures the food chain
could include

Glow worms
Slowworm
Cinnabar Moth
Grasshopper
Magpie