

Instructions Used in this Assessment								
	Instructions		Read			Answer	00	Add to your model

	Let's Begin!
1	

!	In this task, you will develop a model that will help you describe the relationships between parts of an ecosystem.
	You will read a story about this ecosystem. We started a model of the ecosystem for you on the separate model sheet. Each time you read a new part of the story, you will add new information to the model. Then, you will use the model to help you answer questions.

Part 1: The Australian Ecosystem

This is a true story that took place in	The Australian ecosystem had open	One animal in this ecosystem was
Australia.	spaces with small hills covered with	the kangaroo. Kangaroos eat
	plants, such as grass and trees.	different kinds of plants.







!	Find the model sheet. We have started the model for you by showing two parts of the ecosystem, the kangaroos and the plants. The arrow indicates how matter moves from the plants to the kangaroos.
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1	Describe how matter moves from plants to kangaroos in this ecosystem.



One **non-living thing** that plants need in order to grow is soil. Write one more **non-living thing** that plants need in order to grow in the second circle below.



	 Add both non-living things to your model on the Model Sheet.
\rightarrow	o Draw <u>arrows</u> to show how matter moves between the non-living things and the rest of the
	ecosystem.
2b	(Hint: Arrows can point in any direction, and it is possible to have more than one arrow on each
	circle.)

2c	Describe how matter moves from the non-living things to the kangaroo in this ecosystem. Use specific examples from your model to explain your ideas.

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Part 2: Introduction of the Rabbits

In 1859, a farmer brought 24 rabbits	The rabbits grew strong and	Unfortunately, the rabbits damaged
to Australia. There were many green	reproduced rapidly. By 1950,	the ecosystem. They ate almost all
plants for the rabbits to eat.	Australia had 600 million rabbits!	the green plants.







\rightarrow	 Add the rabbits to your model sheet. Draw one or more <u>arrows</u> to show how matter moves between rabbits and other parts of the ecosystem.
3a	

3b	Why do you think many plants could not survive after rabbits were introduced to the ecosystem?

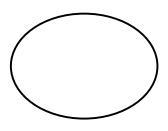
4	Describe how the rabbits made the whole ecosystem weaker. Use what you know about ecosystems and examples from your model to support your reasoning.

Part 3: Scientists Reduce the Rabbit Population			
Scientists decided to try to lower the number of rabbits by releasing a disease into their environment.	The disease killed many of the rabbits. But the dead rabbits created problems for the	There were many dead rabbits, but eventually decomposers cleaned them up.	

environment.	



Write the name of a **decomposer** in the circle below.



	 Add the decomposer to your model.
\rightarrow	 Draw one or more <u>arrows</u> to show how matter moves between the decomposers and
5b	other parts of the ecosystem.

5c	This ecosystem would not survive without the decomposers. Describe how decomposers cleaning up the dead rabbits made the whole ecosystem stronger.

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Add each part of the ecosystem in a circle.

Add arrows to show the interactions.

Arrows can point in any direction, and it is possible to have more than one arrow on each circle.

