



KS2 Threatened Species Trail

This resource pack consists of both the Teacher Guide and the Student Booklet for the Threatened Species Trail. When you have printed the Student Booklet pages, fold in half to make A5 booklets.

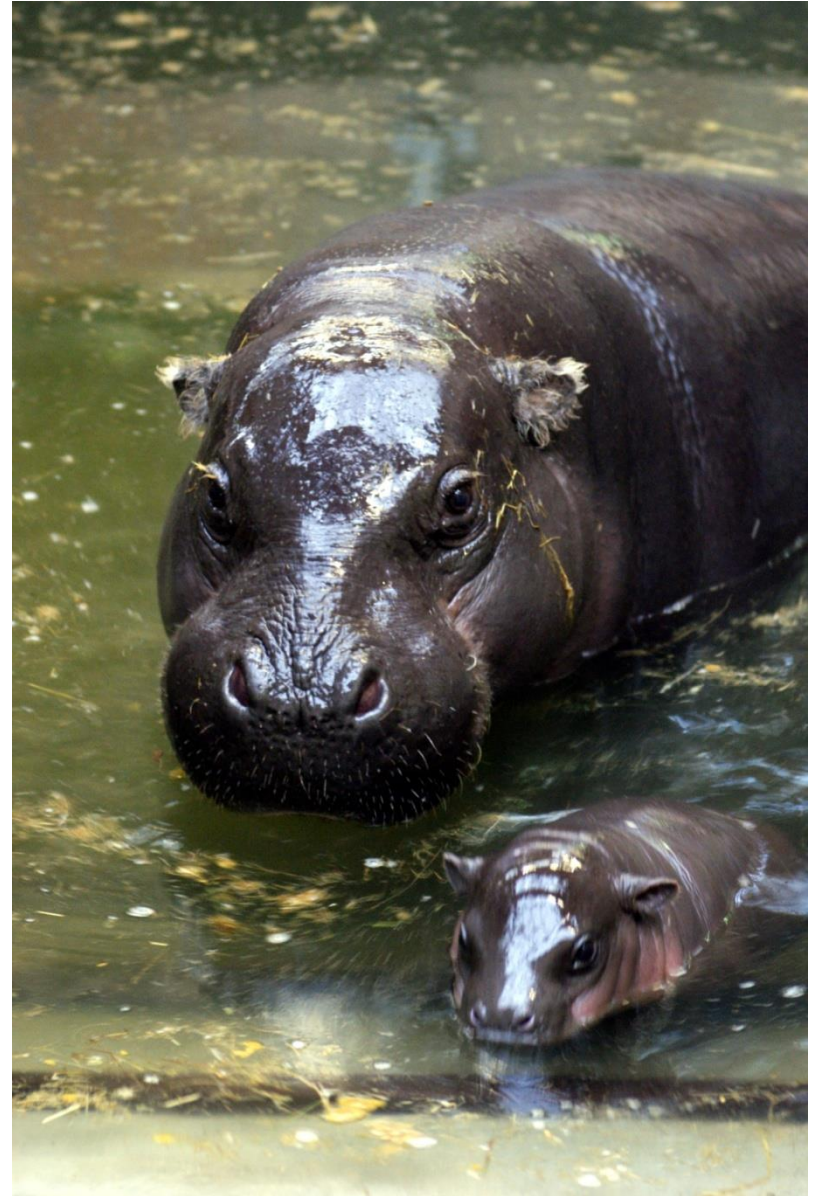
We recommend you look through the whole pack before you start, so you know what information to look for at each sign.

Curriculum Links

SCIENCE

Year 4 Living things and their habitats

recognise that environments can change and that this can sometimes pose dangers to living things



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Marwell Wildlife

KS2 Threatened Species Trail TEACHER GUIDE

The Threatened Species Trail takes you and your pupils around the zoo, focusing on specific animals. You will discover more about some of the threats affecting these animals in the wild and the conservation work that is being done to protect them.



Trail Animals

- | | |
|------------------------|------------------------|
| 1 Humboldt penguin | 5 Cotton-top tamarin |
| 2 Southern white rhino | 6 Partula snails |
| 3 Clouded leopard | 7 Scimitar-horned oryx |
| 4 Grevy's zebra | 8 Pygmy hippo |

As you go round the trail, your pupils can fill in the accompanying KS3 pupil booklet using the information on the Threatened Species Trail signs.

Please encourage your pupils to look through the whole booklet before you start, so they know what information to look for at each sign.

Sign layout

The Threatened Species Trail signs look like the one below:

Problems on the left of the sign.

Solutions are on the right of the sign.

Partula snails - a threatened group of species

Problems?

Invasive species

Carnivorous snails were introduced to the Polynesian islands as a biological control to remove a pest species of snail.

However, these carnivorous snails instead chose to prey upon the smaller partula snails.

This has caused the extinction of some and dramatically reduced the population of many other partula species.

Habitat loss

Agriculture and development have led to habitat loss for these snail species.



What is being done?

Captive breeding

Several partula snail species are part of international captive breeding programmes. Eight partula species are being bred at Marwell.

Monitoring

Marwell contributes funds towards the International Partula Conservation Programme. As part of this programme, wild populations are being monitored closely and reserves created.

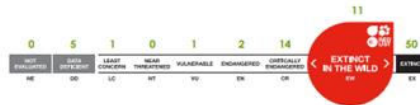
Reintroductions

Reserves are being created with the plan of re-introducing captive-bred partula snails into their former range. It is hoped that snails from Marwell will be released into one of these reserves in the future.



The letter for the mystery word is found here.

The majority of partula species you can see at Marwell are extinct in the wild. The green numbers below show the total number of partula species found in each category.







The IUCN Red List of Threatened Species™ scale is found here and shows you the current status of the species (in red).

The mystery word is:

E C O S Y S T E M S

Answers

Over-fishing	Habitat loss	Competition	Hunting
			
I 1	10	II 2	8

Political instability	Pet trade	Loss of Prey
		
5	II 2	I 1

Trail animals that are:

1. Vulnerable: **Humboldt penguin, clouded leopard**
2. Endangered: **Grevy's zebra, pygmy hippo**
3. Extinct in the Wild: **Scimitar-horned oryx, partula snail**



Rhinos are being poached for their horn, which is used in traditional medicine and for ornaments.



Giving radio collars to wild **Grevy's zebra** helps us to track them, so we know which places they like to use and so the best areas to protect.



Scimitar-horned oryx were first reintroduced to Tunisia.



Buying sustainable seafood with this logo can help **Humboldt penguins**

Ideas for how **you** can help save threatened animals include: **saving energy, recycling rubbish, cycling or walking to school, buying sustainably, wildlife gardening and feeding wild birds.**

Clouded Leopard

Problems?

Hunting

The clouded leopard is hunted for the illegal wildlife trade. Large numbers of skins have been seen in market surveys and there is also trade in bones for medicine, meat for exotic dishes and live animals for the pet trade in several areas including the infamous Tachilek market along the Thai-Myanmar border. Although the clouded leopard is classed as vulnerable on the IUCN register, it is now believed to be extinct in the wild in Vietnam.

Habitat loss

The preferred habitat of dense evergreen tropical rainforest has decreased numbers due to ongoing deforestation in countries such as Myanmar and Cambodia, this is also compounded by the reduction of habitat quality.



What is being done?

Protected by law

Clouded leopards are protected by CITES, an international agreement signed by nearly every country in the world. CITES controls the trade in animals, plants and their products.

Reducing hunting

National legislation to ban hunting is now applicable to Bangladesh, Cambodia, China, India, Malaysia, Myanmar, Nepal, Thailand and Vietnam.

Monitoring

Camera trapping surveys to document distribution and research to improve understanding and support of the species.



You can help these animals too!

One way to help is by choosing food with this logo on at the supermarket.



This logo means that the companies are making sure they leave enough fish in the sea for animals to eat too.

Which trail animal is this most likely to help?

A



White rhino

B



Humboldt penguin

C



Cotton-headed tamarin

Can you think of any other ways you can help save threatened animals? Write them in this box.
There are some clues at the bottom to help you if you get stuck!



Remember: helping the environment helps animals too!



**Marwell
Wildlife**

KS2 Threatened Species Trail










Collect a letter from each Threatened Species sign around the zoo to spell out our **mystery word**...

2 C 4 3 1 S 6 5 7 8

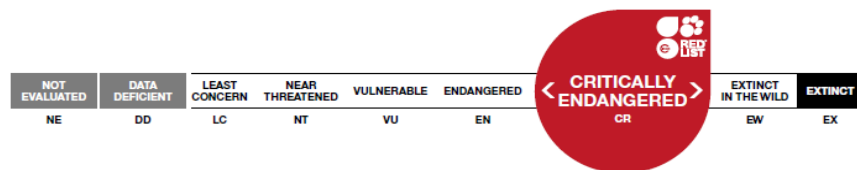
Problems?

What is the most common problem for the animals on the Threatened Species Trail? Fill in this tally chart as you go around the zoo to find out:

Over-fishing	Habitat loss	Competition	Hunting
			

Political instability	Pet trade	Loss of Prey
		

The IUCN Red List of Threatened Species™ sorts animals into groups depending on how threatened they are. Look out for this scale on the trail signs:



Can you name one animal that is:

1. Vulnerable? _____
2. Endangered? _____
3. Extinct in the Wild? _____

What is being done?

Marwell Wildlife is a charity that tries to help the animals on the Threatened Species Trail.



Why are rhinos being poached for their horn?



Marwell was involved in giving some wild **Grevy's zebra** radio collars to wear. How does this help?



Marwell has also helped reintroduce some **scimitar-horned oryx** back into protected parts of their natural habitat. Which country were they first returned to?

Brazil

Tunisia

France



Did you know?

The scimitar-horned oryx we have at Marwell usually breed very well. If you are lucky, you may be able to see some oryx calves in the paddock with their family!