



As Scientists, our big question is...

Which animals and plants thrive at Doddi? (Habitats and classification)

### REMEMBERING



# Prior Learning

**Natural Selection** results in species that are suited to a particular habitat surviving and breeding and passing on their genetic information.

### Variation

What does variation mean?  
What causes variation?

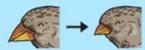
#### Inheritance

These are characteristics that are passed on to offspring from their biological parents.



#### Adaptation

Over many generations, a species will adapt to its environment because the animals with the most successful characteristics are more likely to survive and pass on these characteristics to their offspring.



### UNDERSTANDING



# Sticky Knowledge



Could you create "yes" and "no" questions for a key to identify these creatures? E.g. Cheetah- Does it have spots?

Classification keys, Venn Diagrams and Carrol Diagrams can be used for classifying animals into different groups.

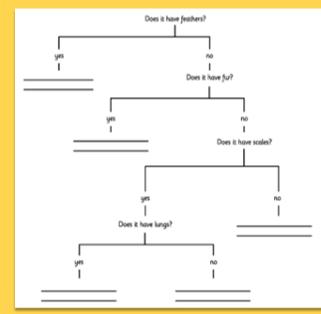
Classification keys use closed questions that start off general at the top of the key and get more and more specific as you move to the bottom of the classification key.

This is a Carroll Diagram. Can you name an animal to go in each section of this diagram?

	Lives in water	Lives on land
Has legs	Crab Sea otter	Horse Spider
Does not have legs	Whale Fish	Snake Worm

Could you put a plant in this diagram? What about a dandelion? Or seaweed?

### Classification Keys



The activity you have just done uses a kind of classification key. Classification keys are a way of identifying living things through a series of questions based on their similarities and differences. For example: 'Does it lay eggs?'

### APPLYING

# My Aspirations

How would you create a survey to test this hypothesis? "The greatest variety of organisms (species richness) at Doddi is found in hedgerow habitats?"

### Vocabulary

organism	Closed question	classification	Carrol Diagram	Hypothesis	Fair test
An individual animal, plant, or single-celled organism	Questions that limit the number of possible different answers	Living organisms are <b>classified</b> into groups depending on their structure	Is a way of sorting objects, numbers and shapes, by their	An idea about how something works that can be tested using experiments	A test that controls all but one variable.



# As Geographers, our big question is... Life in another country- Brazil.



## REMEMBERING



### Prior Learning



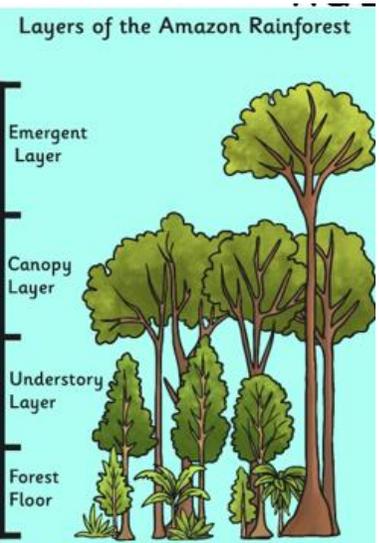
## UNDERSTANDING



### Sticky Knowledge



The Amazon is the world's largest rainforest part of which is located in Brazil.



Why do some call Rio De Janeiro a city of 2 halves?  
What is life like for a Brazilian in Rio De Janeiro?  
Why is The Amazon suffering from deforestation?

What are the benefits of having a physical resource like the Amazon?

What other habitat types are found in Brazil?

## APPLYING

### My Aspirations



How do local and global issues related to Brazil differ?

## Vocabulary

South America	carbon sink	favela	poverty line	deforestation	Environmental issue
Earth's fourth largest continent.	Anything that absorbs more carbon from the	A shanty town in Brazil.	The smallest amount of money a person or a family needs to live on: to buy what is	The clearing, or cutting down, of forests	A problem related to the environment.