Unit of Work: Survival in the Environment (Year 5 Science: Unit 1 C2C)

Assessment Task

Purpose of assessment: To analyse how the form of living things enables them to function in their environments. To use environmental data when suggesting explanations for difference in structural features of creatures. To communicate ideas using multimodal texts.

NOTE: Practical to be completed at North Keppel Island Environmental Education Centre. Theory (this PowerPoint) to be completed at school after visit to NKIEEC and used for reporting/assessment purposes.

Guide to Making Judgements – GTMJ for assessment task

Year 5 Science: Unit 1 — Survival in the environment: Creating a creature **Name:**

Purpose of assessment: To analyse how the form of living things enables them to function in their environments. To use environmental data when suggesting explanations for difference in structural features of creatures. To communicate ideas using multimodal texts.

Science Understanding	Science Inquiry Skills	
Biological sciences	**Communicating**	
Analyse how the form of living things enables them to function in their environment.	Communicate ideas using multimodal texts.	
Applies science knowledge to predict the impact of changing environmental conditions on the creature.	Communicates using accurate scientific language and appropriate representations comprehensively.	**A**
Justifies the difference in structural features using environmental data.	Communicates using scientific language and representations.	**B**
Analyses how the form of living things enables them to function in an environment.	Communicates ideas using multimodal texts.	**C**
Describes structural features of a creature.	Uses everyday language.	**D**
States a structural feature.	Uses fragmented language.	**E**

Feedback:

Task Outline and Steps

TASK:

Your task is to identify one animal from the intertidal zone and one land animal from NKIEEC and compare adaptations that allow each creature to survive in the intertidal environment and land environment at NKIEEC. You will complete this slideshow to present your findings and information.

Steps to complete task:

1. Choose ONE animal from your intertidal walk and talk on NKIEEC and ONE land animal you saw on NKIEEC.
2. For both animals, you will need to identify their structural features (body type, head type, eyes, feet, tail etc).
3. Describe each creature's structural features.
4. Use the environmental data and your science knowledge to analyse HOW the features enable the creature to survive in its environment.
5. Justify the differences in structural features of the two animals and how they help each animal survive in it's own environment.
6. Predict the impact of changing environmental conditions on the two animals.

STEP ONE: Choose ONE animal from the intertidal zone at NKIEEC below and write your initials next to them.


Sea Cucumber


Oysters


Limpets


Mulberry Whelk


Chiton


Moray Eel


Tube Worm


Soft Corals


Hard Corals


Hermit Crab


Hairy Crab


Epaulette Shark

STEP TWO: Choose ONE land animal from NKIEEC below and write your initials next to them.

Sand Goanna

Blue Tongue Lizard

Bush-Stone Curlew

Plover

Cicada

Rainbow Bee Eater

Mosquito

Gecco

Possum

STEP THREE: Identify the structural features of your chosen animals by completing a diagram. Click on ‘insert’ then ‘shapes’ to insert lines to your diagram. You can copy and paste your animal from the previous slides.

Title - Animal One:

Copy and Paste image of your chosen animal here.

STEP THREE: Identify the structural features of your chosen animals by completing a diagram. Click on ‘insert’ then ‘shapes’ to insert lines to your diagram. You can copy and paste your animal from the previous slides.

Title - Animal Two:

Copy and Paste image of your chosen animal here.

STEP FOUR: Describe at least 2 structural features for both your chosen animals in the table below

Animal One:

Structural Feature	Description (what does it look like?)

Animal Two:

Structural Feature	Description (what does it look like?)

STEP FIVE: How do the structural adaptations enable your chosen animal to survive in the intertidal zone at NKIEEC?

Animal One:

Structural Feature	Analysis (How does this structure enable the animal to function/survive in the intertidal zone/what does it do?)

STEP FIVE: How do the structural adaptations enable your chosen animal to survive on the land at NKIEEC?

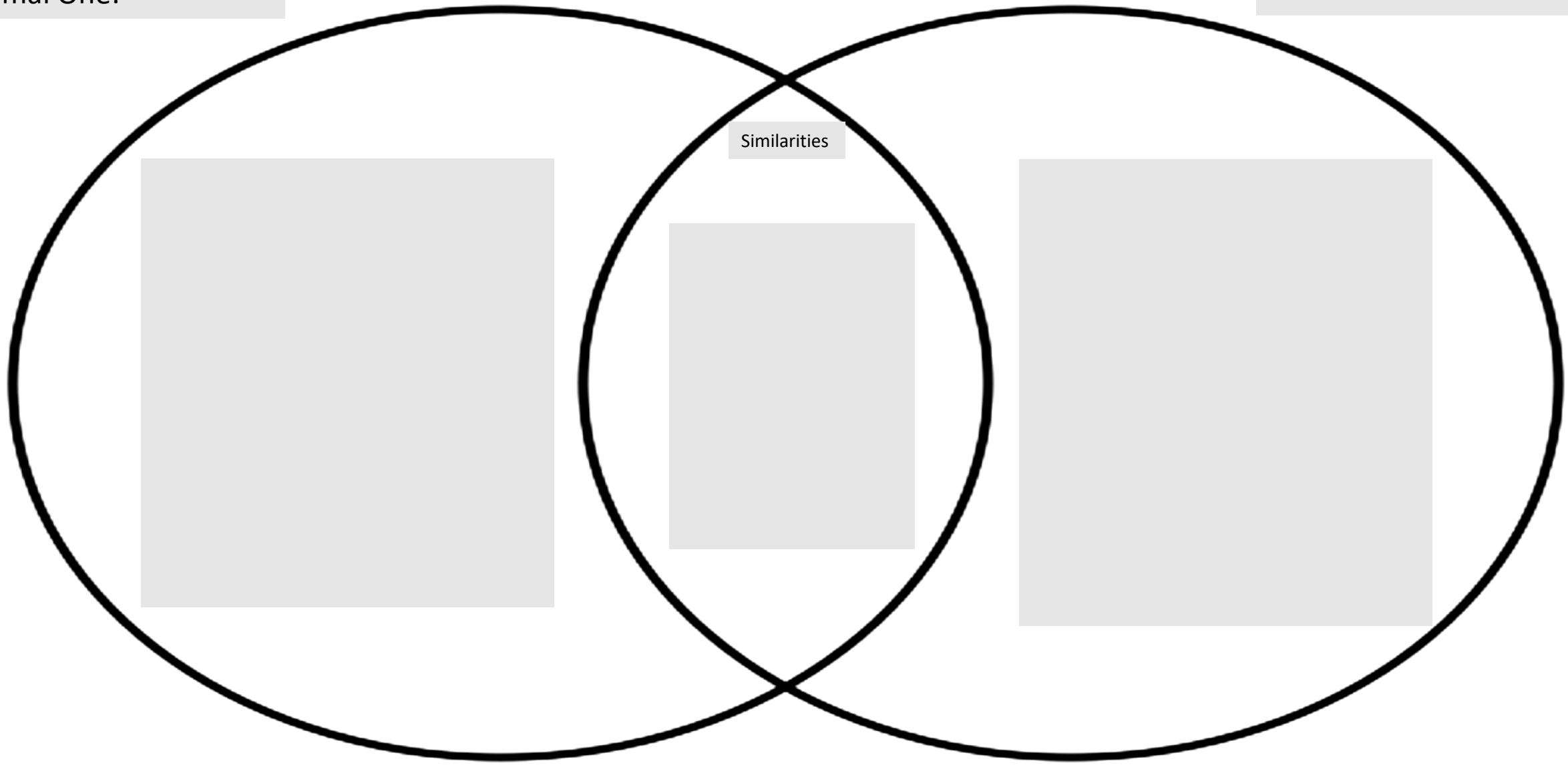
Animal Two:

Structural Feature	Analysis (How does this structure enable the animal to function/survive in the intertidal zone?)

STEP SIX: Identify the differences in structural features for your two animals by completing the Venn Diagram below. If there are any similarities, write them in the middle of the diagram

Animal One:

Animal Two:



STEP SIX CONTINUED: Justify the differences in structural features. Your response should indicate how the different structural features help each of the animals survive in its own environment.

STEP SIX CONTINUED: Predict how your animal would be affected by a cyclone.