

# Welcome to GCSE Geography



Where will it take us today?

# TOPIC 4- SUSTAINING ECOSYSTEMS

*BY THE END OF THIS UNIT, YOU WILL KNOW THE FOLLOWING*

***WHY SHOULD TROPICAL RAINFORESTS MATTER TO US?***

- 1. WHAT BIODIVERSITY EXISTS IN THE TROPICAL RAINFOREST (TRF)*
- 2. WHAT THE DISTINCTIVE FEATURES OF THE TRF BIOME ARE*
- 3. WHY THE TROPICAL RAINFORESTS ARE BEING 'EXPLOITED' AND HOW THIS CAN THIS BE MANAGED MORE SUSTAINABLY*
- 4. CASE STUDY: sustainable rainforest management*



# Topic 4: Sustaining Ecosystems

The link between human wellbeing and ecosystem wellbeing is vital.

**This is what we will be exploring in this session:  
energy transfer in TRFs**



## **Know**

How energy is transferred in a rainforest biome  
The inter-relationship of species in the rainforest

## **Understand**

What happens during energy transfer  
What might happen if there are changes in the food web/chain



**Know** What the food web/chain in a rainforest is like

**Understand** What happens if humans interfere

# TRF: Food Web/Chain

Tertiary Consumers

Reptiles, bats, insects,  
birds, amphibians

Secondary Consumers

Tree roots, fungi, protozoa, bacteria

Primary Consumers

Layers x 4

Primary Producers

Small mammals, parrots, monkeys, insects

“Yikes, massive mix up here!” ... can you help??

come get it!

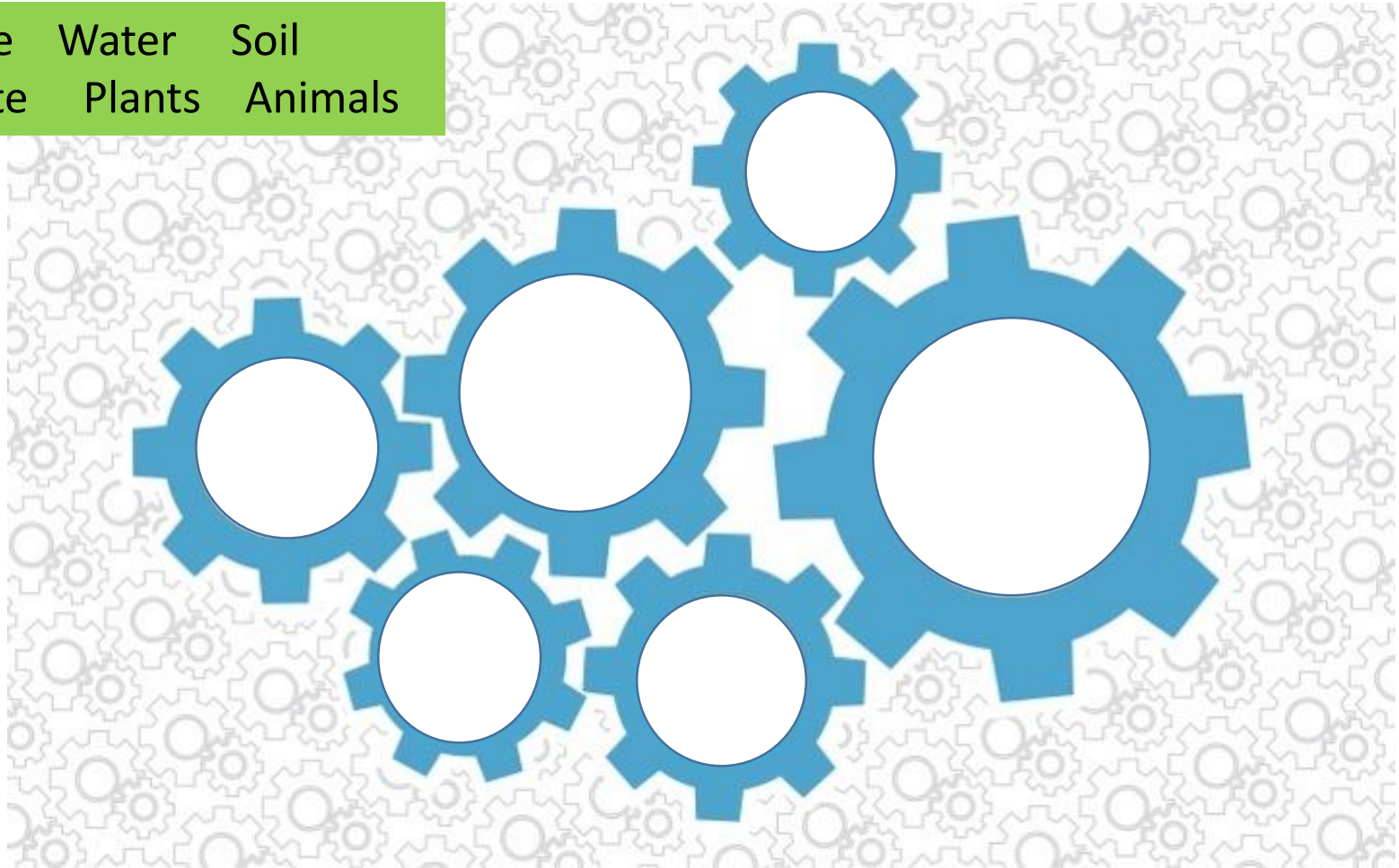


Ground Layer

Jaguar, snake

# Biome futures depend upon the workings of all the parts

People Water Soil  
Climate Plants Animals



**MUST:** Label the cogs – clue – size is relative to importance

**SHOULD:** Explain your thinking

# Consolidation

EASY:

Identify 2 inputs

Identify 2 outputs

TEASER:

What 'I' is shown by this diagram?

CHALLENGE!!

What if .....

a) Half the trees were removed?

