

# BIOLOGY FIELD TRIP



Group 3 Kate, Eunice, Coey

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Disclaimer: photos are of low quality

*–frustrated group 3 members*

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# TABLE SHOWING ABIOTIC FACTORS OF THE TWO QUADRATS

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	WATER FLOW CURRENT (M/S)	LIGHT INTENSITY (LUX)	AIR TEMPERATURE (°C)	WATER TEMPERATURE (°C)
Quadrat 1	0.113	6333	29.67	22.40
Quadrat 2	0.293	6530	28.20	22.40

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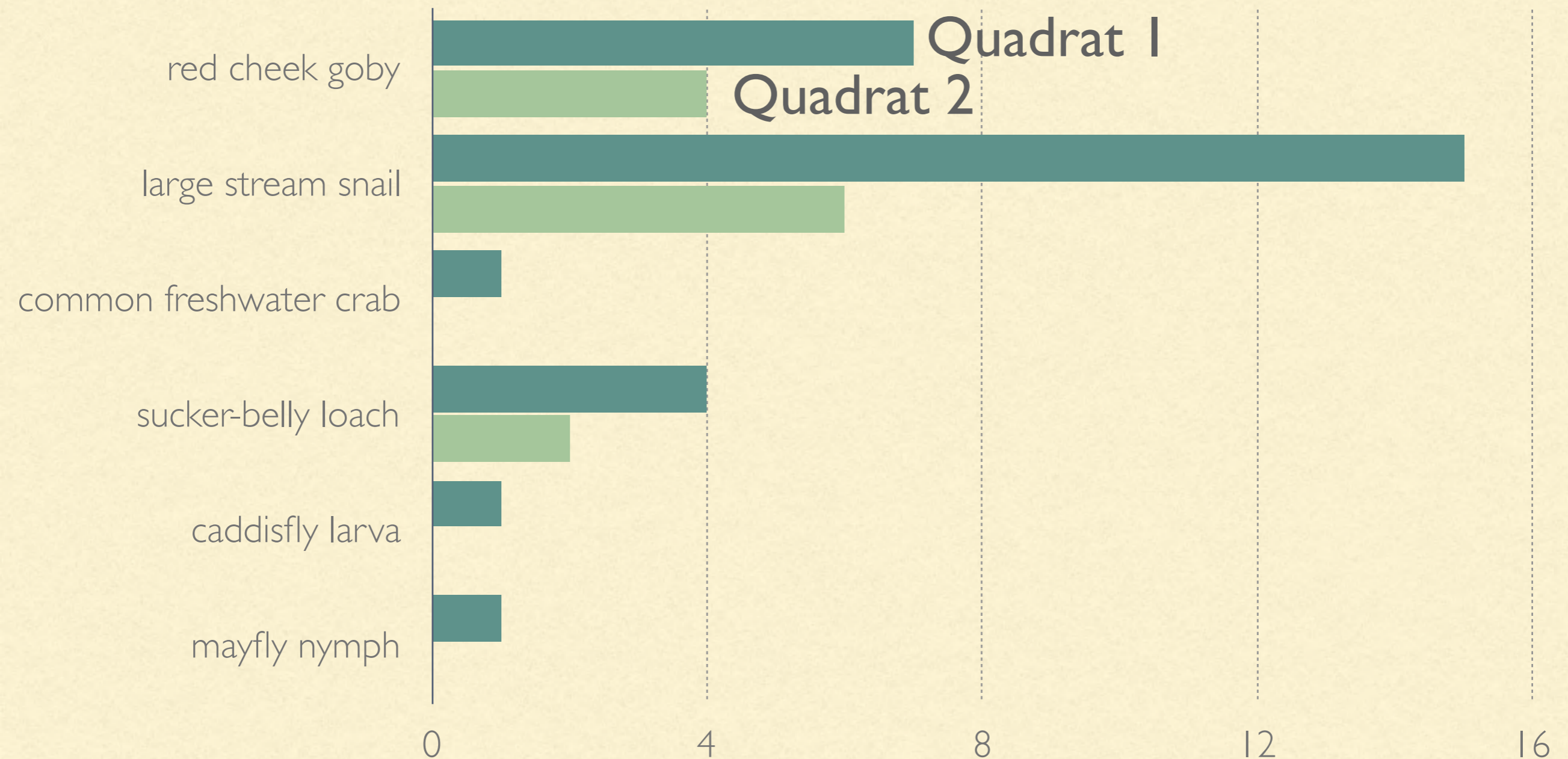
# COMPARISON OF ABIOTIC FACTORS IN THE TWO QUADRATS

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Quadrat 1	Quadrat 2
Slower flow of water	Faster flow of water
Lower light intensity	Higher light intensity
Similar water temperature and air temperature	

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# ABUNDANCE OF DIFFERENT ORGANISMS



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# THREE ORGANISMS

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1. Red cheek Goby
2. Large stream snail
3. Common freshwater crab



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# TABLE SHOWING ABUNDANCE OF DIFFERENT SPECIES IN DIFFERENT QUADRATS

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	ABUNDANCE IN QUADRAT 1	ABUNDANCE IN QUADRAT 2
RED-CHEEK GOBY	7	4
LARGE STREAM SNAIL	15	6
COMMON FRESHWATER CRAB	1	0

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# ADAPTIONS OF DIFFERENT ORGANISMS TO FAST RUNNING WATER

✓=Shows such adaptation

	STREAMLINE D/ FLATTENED BODY	SMOOTH BODY SURFACE	WITH SUCKER-LIKE STRUCTURE	HIDING UNDER SHELTERS
Red cheek goby	✓	✓	✓	
Large stream snail			✓	✓
Common Freshwater crab	✓			✓



# DIFFERENT ORGANISMS' ANTI PREDATION METHODS

✓=Shows such adaptation

BEARING  
HARD SHELL

CAMOUFLAGE

QUICK  
REACTION

HIDING  
UNDER  
SHELTERS

Red cheek  
goby

✓

✓

Large stream  
snail

✓

✓

Common  
Freshwater  
crab

✓

✓

✓

✓

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# COMPETITION 🐼

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- Goby and loach: similar niche
- Different snails compete with each other for space and food



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# PREDATION 🍴

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- Crab: predators (higher trophic level in food chain)

- Shrimp: Prey

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# OXYGEN SUPPLY

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Mosses/ algae present in the river stream --> photosynthesis -->  
provide OXYGEN to support other organisms

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