Trawling for Tuna in the Classroom!

Equipment needed per group: 1 x 15cm square of shade cloth (about 2-3mm mesh size)
1 x tray
1 x teaspoon of 100s and 1000s
2 x teaspoons of chocolate chips
15 x M&Ms
10 x jaffas
5 x sniffers
1 x container to hold all the sweet stuff!

Instructions:

Teacher to do:
Give each group a number – this is their boat number in the fishing fleet.

Instructions to give students:
The shade cloth is your trawl net and the tray is the ocean. The 100s and 1000s are the plankton of the ocean, the chocolate chips are mullet, the M&Ms are TUNA which is your target species (this is the species that you are actually fishing for), the jaffas are seabirds and dolphins and the sniffers are sharks!

Students to do:

1. Hold the shade cloth over the tray and pour the contents of the sweet stuff container onto your trawl net.
2. Shake your trawl net around gently.

WHAT WAS CAUGHT?

3. Count how many of each species is in the net for your boat number.
4. Fill the table on the board with your boats catch under your boat number.
5. On your table, add everyone else's numbers from the board then calculate the average number of each species which was caught.

WHAT WAS LEFT IN THE OCEAN?

6. Count what was left in the ocean/tray.
7. Fill the table on the board with your boats non-catch under your boat number.
8. On your table, add everyone else's numbers from the board then calculate the average number of each species which was left in the ocean.

9. Write a paragraph *describing* what was harvested from the ocean and what was left and *explain* how you think this might affect biodiversity and food webs. Use the following keywords: target species, by-catch, biodiversity and food webs.

Trawling for Tuna

What did the fishing fleet catch?

SPECIES	BOATS							
	1	2	3	4	5	6	7	**Average**
Plankton								
Mullet								
TUNA								
Seabirds/dolphins								
Sharks								

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	1	2	3	4	5	6	7	**Average**
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Mullet								
TUNA								
Seabirds/dolphins								
Sharks								

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2. Shake your trawl net around gently.

WHAT WAS CAUGHT?
3. Count how many of each species is in the net for your boat number.
4. Fill the table on the board and your table with your boats catch under your boat number.
5. On your table, add everyone else's numbers from the board then calculate the average number of each species which was caught.

WHAT WAS LEFT IN THE OCEAN?
6. Count what was left in the ocean/tray.
7. Fill the table on the board and your own table with your boats non-catch under your boat number.
8. On your table, add everyone else's numbers from the board then calculate the average number of each species which was left in the ocean.

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