

## Year 3 – Homework

### Overfishing and fish farming

Please watch the following documentaries and answer the following questions:

#### **Global warming and overfishing: SEA THE TRUTH (1 hour)**

Link: <https://www.youtube.com/watch?v=V325y7QCg3c>

#### **The Last Fish – Our exhausted Seas (from minute 18 to minute 32 of the documentary)**

<https://www.youtube.com/watch?v=lQoVQRqQhll>

The first documentary gives a very bleak picture of the crisis of our oceans while the 10 minute extract of the second documentary offers some positive solutions for fish farming.

Both of these issues form an integral part of the Biology syllabus for your IGCSE exam.

#### **Questions: (Sea the Truth)**

1. What percentage of predatory and commercial fish are gone from our oceans?
2. If we continue fishing at the current rate, in how many years have some estimated that we may empty our oceans of fish?
3. Explain how the following factors have contributed to the crisis:
  - trawling
  - sonar
  - expanded fishing areas
  - long-line fishing
  - larger ships, with larger nets and greater technology
  - subsidies
  - pollution
4. Explain the following measures to try to reduce the crisis? Why are they largely ineffective?
  - fishing quotas
  - fishing licenses
  - regulations on the size of the fish that may be brought to shore
5. What is the bycatch? Up to what percentage of the original catch may become the bycatch?
6. What new health risks may be associated with eating some kinds of fish?

7. Give some examples of fish species that have become endangered due to overfishing.

8. In the foodchain: kelp ---> sea urchins ---> cod : what will happen to a) the sea urchins and b) the kelp if the cod disappear?

### **Documentary extract: the Last Fish**

#### **Questions:**

1. What is aquaculture?

2. What is fishmeal?

3. What are the problems of farming predator fish? How many kilos of fishmeal is needed to produce 1kg of salmon?

4. What examples of solutions / good practices are explained in the film?