

# Fishery

***Research on dynamite fishing.***

***A MaSDiV classroom activity.***



<http://www.fisme.science.uu.nl/toepassingen/28637/>

*The ocean is a valuable resource for food and income. All countries and cultures have their own traditions when it comes to eating fish or fishing. Overfishing has led to a decrease in the diversity of sea life; damaging coral and diminishing certain types of fish and other sea animals. Fishing links very closely to the daily lives and diets of students. In this activity students are asked to investigate the case of dynamite fishing in Tanzania. This activity is multi- and interdisciplinary with a base in physics, chemistry and biology. During the tasks students will find out more about sound waves, connect biological consequences to physical changes and understand how chemical characteristics attribute to physical phenomena.*

Lesson activities:

Students investigate their prior knowledge by looking at their own fish consumption and listing methods of fishing in different countries. Dynamite fishing is then introduced with a video . Activities for students:

- Explore blast waves under water by drawing, lab experiments, slow-motion video examination etc.
- Investigate why and how dynamite kills fish. Which factors define the perimeter of the area in which the fish are killed?
- Watch the online science video of How stuff works about dynamite
- Investigate where dynamite comes from and how it works. Determine which substance makes it possible for dynamite to explode under water.
- Design a solution for dynamite fishing in Tanzania. Think about the needs of the fishers (food, money, care for their children) and try to be creative in using the possibilities of their surroundings (for example sustainable coral reef exploitation by tourism).

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