TEACHER OUTLINE:

MARINE ECOLOGY REVIEW

OVERVIEW

Learning about Orange Roughy and the Orange Roughy fishery's history is a great way to review the content in this marine ecology topic. What makes a fish a fish, adaptations, food webs and habitats are all relevant to the case study of Orange Roughy.

These final activities can also be used to review key learning and concepts covered in the marine ecology topic.

See accompanying slide sets Sustainable fishing: Orange Roughy and Reviewing key concepts.

FOCUS QUESTIONS

- *What characteristics of orange roughy make them susceptible to overfishing*
- *What new words and concepts have we learnt?*

LEARNING OBJECTIVES

- Describe a characteristic of orange roughy that makes it susceptible to overfishing
- Use scientific and fisheries related vocabulary

LOCATION

Indoors

DURATION

45+ minutes

LEVEL

Level 3 - 5

CURRICULUM

Science

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NEXT STEPS

Science & the Sustainable Catch

Fisheries Management

MATERIALS

- Slide set Sustainable fishing: Orange Roughy
- Slide set Reviewing key concepts
- This Teacher Outline
- Access to the internet (for film clip)
- Copies of MSC Certified fisheries: Orange Roughy worksheet
- Something to write with

PROCEDURE

1. DISCUSS Orange Roughy and why this fish is so vulnerable to overfishing [slide 40 & 41].
2. READ and answer Sustainable fishing orange roughy worksheet [slide 41].
3. Complete the Topic 2 Summary Kahoot QUIZ [slide 42].
4. Review key terms by defining and then acting out a term while the rest of the class tries to guess the term [slide 42].

KEY WORDS

Sustainable fishing	Marine Habitat
Orange Roughy	Food webs
Bottom Trawling	Adaptations

CURRICULUM LINKS

Nature of Science (Level 3-5)

- Investigating in science

- Communicating in science
- Participating and contributing

Living World (Level 3-5)

- Ecology
- Life processes

Science (Level 6+)

- Participating and Contributing
- Ecology
- Life processes

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- *The Natural World: The Organism:* Recognise that there are biological processes common to all organisms, which occur in different ways in different species. *The Biological Environment*: Recognise and explain the changes undergone by species (especially those of Aotearoa) over long periods of time (Level 4+)
- The Natural World: The Biological Environment: Investigate the effect of human actions, and natural processes, on an Aotearoa ecosystem (Level 6+)