



## **Lesson Plan: SEASHORE MARINE TABLE QUIZ**

**Class: Senior Class**

**Subject: Science / Geography**

**Strand: Living Things / Natural Environments**

**Strand Units: Plants and Animals / the Local and Natural Environment / Land & Seas of my Country**

### **Aim/Learning Objectives:**

Develop an increasing awareness of plants and animals that live in local marine environments including the seashore, seas and oceans of Ireland.

After learning all about the seashore and other marine related lessons, this quiz can be used to evaluate the student's knowledge of the marine related living things and natural environments. The table quiz can be used as a guide, highlighting facts about the marine environment and some of the animals that live there.

### **Skills:**

Students should develop:

- an understanding and knowledge about the seashore and marine environment
- their ability to work in a team setting
- working scientifically: questioning and observing

### **Materials:**

- Worksheet: Seashore and Marine Table Quiz (following this lesson plan)
- Explorer Seashore PowerPoint presentation, and seashore species guide available on [www.explorers.ie](http://www.explorers.ie)
- Paper /Pencils / Pens
- Questions Picture Round – Student Copies
- Questions and Answers – Teachers copy

### **Activity:**

#### **Table Quiz**

- Explain to the class that they will have a table quiz about what they have learned about the seashore and marine environment. There will be a set number of rounds (select the rounds from below or develop new rounds suitable for the class). Each round will have 10 questions. Some of the questions will be multi choice, some will be identifying a picture and some will need the answer given.
- Split the class up into teams (i.e. three to four students in each team). Encourage the students to come up with a marine themed name for their team. Give each team a sheet of paper for writing their answers on. Ask the students to write the Round Number at the top of the page and the question number along the side.
- Explain that when you call a question out, the students should work as a team to select the correct answer. When they are all happy with the answer they should write it down on the answer sheet. Remind the students there is a time limit to answer each question (the teacher should use their discretion on the amount of time allocated).
- When all questions have all been read out and the picture rounds have been answered, collect or swap the answer sheets with other teams to mark. Give out the correct answers and establish the winning team.

## Worksheet: Seashore and Marine Table Quiz



### Round 1: True or False Questions / Answers (Teachers copy)

	Question: True or False?	Answer
1	Ireland is an Island?	True: Ireland is surrounded by water
2	The Atlantic Ocean is the largest ocean on the earth?	False: the Pacific Ocean is the largest ocean on the planet
3	There are no sharks in Irish waters?	False: There are lots of different sharks living in Irish waters including dogfish, spur dogs, smooth hounds, tope, blue sharks, thresher sharks, basking sharks.
4	Starfish like to eat mussels?	True, plus other bivalves, which are shellfish with 2 halves, such as cockles and clams.
5	Whales and Dolphins are types of fish?	False: Whales and Dolphins are marine mammals.
6	Blue whales are the largest animal on the planet?	True. A blue whale can grow up to 33m or over 100 ft in length.
7	Gobies and Blennies are types of shellfish?	False: Blennies and Gobies are types of fish that can be found on the seashore.
8	The Deepest place in the oceans can be found in the Atlantic Ocean?	False. The Marianna trench is the deepest point on the planet (approximately 10,900 m or 35,800 ft deep) and it is located in the Pacific Ocean.
9	All fish have gills to breath?	True
10	The Oceans contain over 90% of all the water on earth?	True

### Round 2: Picture Round Answers (Teachers Copy)

Name the animals found in Rockpools on the seashore (provide handouts of pictures or display pictures on screen)

1. Sea Anemone	6. 2-spotted Goby
2. Jellyfish	7. Hermit Crab
3. Prawn	8. Mussels
4. Butterfish or Gunnel	9. Tompot Blenny / Blenny
5. Starfish	10. Flatfish

### Round 3: Picture Round Answers (Teachers Copy)

Name the animals, seaweeds and other items on the beach – provide hand out of pictures to students or display the pictures on the screen.

1. Dog whelk	6. Bladder wrack
2. Dog whelk eggs	7. Chiton
3. Lugworm deposit	8. Grey Seal
4. Knotted wrack	9. Thong weed
5. Limpet	10. Barnacles

## Worksheet: Seashore and Marine Table Quiz



### Round 4: Marine Questions / Answers (Teachers Copy)











	Questions	Answers
1	How many legs does a common starfish usually have?	Five, but starfish can re grow limbs, so you might spot one with one short leg.
2	What do fish use to breathe?	Gills
3	What types of water is found in Ireland's lakes, rivers and streams?	Freshwater
4	Name 2 types of shellfish that you might find on the Irish seashore?	Periwinkle, topshell, clams, cockles, mussels, oysters, razor shells, dogwhelk, limpet, saddle oyster.
5	What is a mermaid's purse?	It's an egg case of a shark or ray or skate
6	How many legs does a crab have?	Ten or 5 pairs. The first pair is modified into pinchers or claws.
7	What causes the tide to go in and out every day?	The gravitational pull between the moon, sun and the earth
8	How many times does the tide go in and out every day?	Twice
9	How much of all the water on the planet is Freshwater?	Approximately 3%
10	What is an invertebrate?	It is an animal with no backbone

### Round 5: Mix of Tricks Questions / Answers (Teachers Copy)

	Questions:	Answers
1	Ireland has up to 220 million acres of marine territory (888,000 km <sup>2</sup> ), true or false?	True
2	Seaweeds belong to a group of plants called Algae, true or false?	True
3.	Name one of the three areas in which the seashore is divided a) Play Zone b) Intertidal Zone c) Seaweed Zone	Intertidal
4	What percentage of Deep Water Currents makes up the world's oceans?	90%
5	Name the ocean current that runs through the Atlantic Ocean	Gulf Stream
6	How deep is the Rockall Trough that is located on the Real Map of Ireland?	3000 meters
7	The world ocean consists of two types of currents. One is called Surface Currents – what is the name of the other?	Deep Water Currents
8	How much water is used when brushing your teeth with the tap running?	6 litres per minute
9	What ocean is included in the Real Map of Ireland? a) Pacific ocean      b) Atlantic Ocean      c) Indian Ocean	Atlantic
10	Name a type of contaminant that can pollute the water a) Pesticides and Fertilisers      b) Litter      c) Soap and detergents      d) all of these	All of these











Worksheet: Seashore and Marine Table Quiz

Round 2: Picture Round (Student Copy)

1		2	
3		4	
5		6	
7		8	
9		10	

Worksheet: Seashore and Marine Table Quiz

Round 3: Picture Round (Student Copy)

1		2	
3		4	
5		6	
7		8	
9		10	

Photographs © Cushla Dromgool-Regan, Marine Institute, 2009; Irish Seal Sanctuary