

Date	Class level Fourth Class	Subject Mathematics
Strand Measures	Strand Unit Length	
Title Measuring Ireland's Research Vessels and other marine objects.		
Objective(s) The aim of the lesson plan is for children to estimate, measure and record the lengths, heights and perimeter of selected objects including marine related objects and Ireland's marine research vessels.		
Skills Required Estimate, measure, record.		
Learning objectives The child should be enabled to: Estimate, measure, compare and record lengths and widths of a wide variety of objects in metres and centimetres selecting suitable instruments of measurement. Understand, estimate and measure the perimeter of regular 2-D shapes.		Learning activities Guided Discussion: The child will be guided through questioning to recall previous learning about length. Teacher introduces the concept of perimeter. Discussion and practical application of this. Discuss with the students the types of boats that are used in Ireland including sailing and fishing boats, as well as the marine research vessels – RV <i>Celtic Explorer</i> and the RV <i>Celtic Voyager</i> . Also introduce other marine technology including the Remotely Operated Vehicle ROV <i>Holland 1</i> (<i>it is like a remotely operated submarine</i>), which is controlled from the RV <i>Celtic Explorer</i> . Pair Work: Children estimate, measure, record and compare their findings having measured length, width and perimeter of selected objects e.g. copybook, lunch box. Worksheet : Each child completes worksheets to consolidate learning.
		Resources

	<p>Rulers, tape measures, trundle wheel</p> <p>Worksheets (attached)</p>
<p>Differentiation Differentiate group activities, tasks and roles to take account of individual needs.</p>	
<p>Assessment Question and answer Oral feedback from children, teacher observation Teacher check, pupil work samples, End of unit test (Worksheets)</p>	
<p>Linkage and Integration English - Oral language: Students discuss the names for different parts of the ships and boats. ICT: Students produce a presentation on one of the Marine Institute's research vessels, the R.V Celtic Explorer or R.V. Celtic Voyager.</p>	

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 <p>Activity 1. The RV <i>Celtic Explorer</i> is 65.5 m long. The beam (width) is 15m wide. Measure and mark out the length and width of the RV <i>Celtic Explorer</i> in the school yard.</p>	 <p>Activity 2. The RV <i>Celtic Voyager</i> is 31m long. The beam (width) is 8.5m wide. Measure the length and width of the RV <i>Celtic Voyager</i> in your school yard.</p>	
<p>Activity 3. Measure the perimeter of each vessel. RV <i>Celtic Explorer</i> perimeter is _____m. RV <i>Celtic Voyager</i> perimeter is _____m. What is the difference between the RV <i>Celtic Explorer</i> perimeter and the RV <i>Celtic Voyager</i> perimeter? _____m.</p>		
	<p>Activity 4. The Remotely Operated Vehicle ROV <i>Holland 1</i> is like a submarine that has a long cord connected to it and is controlled by a pilot on the RV <i>Celtic Explorer</i>.</p>	
<p>The ROV Holland is length is 3018mm. Its width 1810mm and its height is 1790mm. How long is the ROV in metres? _____m. How wide is the ROV in centimetres? _____cm. What is the perimeter of the ROV in metres? _____m</p> <p>Activity 5 The ROV can travel to depths of 3000m under the sea. Measure the length of your class room or the school yard. _____m. What is the difference in distance? _____m.</p>		

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<p>Activity 6.</p>  <p>Jack and Anna go out fishing on the boat shown above each day. It is 9 m long and 3m wide. Anna walks around the perimeter of the boat every morning to check the equipment.</p> <p>What distance does she walk each r She has to walk this distance each day for a week (7days). How far has she walked all together after a week? _____</p>		
<p>Activity 7.</p>  <p>Paul's fishing net is 740m long and Clare's net is 660m long. How long are both nets altogether? _____. How much longer than Clare's net is Paul's net? _____.</p>		
<p>Activity 8.</p>  <p>Estimate and Calculate the perimeter of the following:- This lobster pot is 40cm long and it is 20 cm wide. Calculate the perimeter of the pot? _____</p>		
 <p>The red fish box in the picture is 80 cm long. The width of the box is half the length.</p> <p>What is the width of the box? _____ What is the perimeter of the box? _____?</p>		