## Addition, Subtraction, Multiplication and Division: Marine Multiples

Aim:<br>Identify common factors, common multiples and prime numbers.<br>I can identify common multiples.

| Success Criteria: <br> I know what 'common multiple' means. <br> I can identify common multiples. | Resources: <br> Lesson Pack <br> Whiteboards and pens <br> Dice - one per child <br> Coulouring pencils |
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| Key/New Words: <br> Multiple of, common multiple, lowest common <br> multiple, LCM. | Preparation: <br> Multiple Cards - one per class <br> Marine Multiples Game - one per pair <br> Common Multiples Activity Sheet - one per pair <br> Extra Challenge Activity Sheet - as required |

Prior Learning: It will be helpful if children have a secure understanding of place value, multiplication facts and corresponding number facts.
Learning Sequence
Buzz, Whizz, Pop: Arrange the children into two circles. Inform the children that they will be counting in ones around
the circle. Demonstrate this if required. Stop the children and introduce the rules: every multiple of three is replaced
with the word 'buzz', every multiple of five is replaced with the word 'whizz' and every multiple of nine is replaced
with the word 'pop'. Play the game. To extend, you can change the multiples substituted by the words. Did you spot
a pattern with the words used? Were there any numbers that required more than one word?
Sea of Numbers: Using the Lesson Presentation, explain what the term 'common multiple' means.
Sea of Numbers: Using the Lesson Presentation, explain what the term 'lowest common multiple' means.
In the Deep Sea: Give out the Multiple Cards, one per child. Get a child to call out two numbers, e.g. two and six.
multiples, e.g. three, four, five. Repeat with a different set of numbers. Are the children able to identify common
multiples? Are there any numbers that didn't have any common multiples?

## Exploreit

Quizit: Invite children to complete the challenging questions on this amazing Year 6 Calculation Factors Multiples Prime Numbers Maths Mastery Activities PowerPoint.
Playit: Children play this exciting BBC Factors and Multiples Game to practise identifying common factors and multiples.

