## Addition, Subtraction, Multiplication and Division:

 Common Factors, Common Multiples and Prime Numbers Reasoning| Aim: <br> Identify common factors, common multiples <br> and prime numbers. <br> I can solve reasoning questions using my <br> knowledge of common factors, common <br> multiples and prime numbers. | Success Criteria: <br> I know what the term 'common factor' means. <br> I know what the term 'common multiple' means. <br> I know what the term 'prime number' means. <br> I can use mathematical language to explain <br> solutions to problems. | Resources: <br> Lesson Pack |
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|  | Key/New Words: <br> Problem solving, solutions, predict, identify, <br> RUCSAC, reasoning. | Preparation: <br> Talk Partner Activity Sheet - 1 per pair <br> Independent Activity Sheet -1 per child |

Prior Learning: It will be helpful if children are familiar with the terms 'common multiple', 'common factor' and 'prime number'.
Learning Sequence
Common Factors Reasoning 1a: Use the step-by-step slides from the Lesson Presentation to model how to solve
common factor reasoning questions.
with a partner to apply the strategy to a similar question, explaining their reasoning. Display the answers on the
Lesson Presentation and discuss.
Common Multiples Reasoning 2a: Use the step-by-step slides from the Lesson Presentation to model how to solve

common multiple reasoning questions. | Common Multiples Reasoning 2b: Recording their answers on the Talk Partner Activity Sheet, the children work |
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| with a partner to apply the strategy to a similar question, explaining their reasoning. Display the answers on the |
| Lesson Presentation and discuss. |
| Prime Numbers Reasoning 3a: Use the step-by-step slides from the Lesson Presentation to model how to solve |
| prime number reasoning questions. |

