

Maths Workout - Algebra & Problem Solving

| Topic 15 - Sequences 2 | | | | |
|--|--|--|---|---|
| Target 1 | Target 2 | Target 3 | Target 4 | Target 5 |
| <i>Use the nth term rule to generate a sequence</i> | <i>Identify the nth term rule of a sequence with a common difference</i> | <i>Use the nth term rule to generate a sequence</i> | <i>Identify the nth term rule of a quadratic sequence using differences</i> | <i>Identify the nth term rule of a quadratic sequence using differences</i> |
| 1. Demo: Use the nth term rule to generate a sequence with a common difference | 1. Demo: Identify the nth term in a simple sequence with a common difference | 1. Use the nth term rule to generate a quadratic sequence | 1. Demo: Identify the nth term in a quadratic sequence of the form $U_{n+i} = U_n + 3n^2 + 2$ using differences | 1. Demo: Identify the nth term in a quadratic sequence of the form $U_n = 3n^2 + 2n + 2$ using differences |
| 2. Use the nth term rule to generate a sequence with a common difference | 2. Identify the nth term in a simple sequence with a common difference | 2. Use the nth term rule to generate a quadratic sequence | 2. Identify the nth term in a quadratic sequence of the form $U_n = 3n^2 + 2$ | 2. Identify the nth term in a quadratic sequence of the form $U_n = 3n^2 + 2n + 2$ |
| 3. Use the nth term rule to generate a simple sequence | 3. Identify the nth term in a simple sequence with a common difference | 3. Use the nth term rule to generate a quadratic sequence | 3. Identify the nth term in a quadratic sequence of the form $U_n = 3n^2 + 2$ and use it to calculate a specific term | 3. Identify the nth term in a quadratic sequence of the form $U_n = 3n^2 + 2n + 2$ |
| 4. Use the nth term rule to generate a simple sequence | 4. Identify the nth term in a simple sequence with a common difference | 4. Use the nth term rule to generate a quadratic or cubic sequence | | 4. Identify the nth in a quadratic sequence of the form $U_n = 3n^2 + 2n + 2$ and use it to calculate a specific term |
| 5. Use the nth term rule to calculate a single term in a sequence | 5. Identify the nth term in a simple sequence with a common difference | 5. Use the nth term rule to generate a quadratic or cubic sequence | | 5. Identify the nth in a quadratic sequence of the form $U_n = 3n^2 + 2n + 2$ and use it to calculate a specific term |
| 6. Use the nth term rule to calculate a single term in a sequence | 6. Identify the nth term and use it to calculate a specific term | | | |
| | 7. Identify the nth term and use it to calculate a specific term | | | |