Student Details

**First Name Last Name**

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**Teacher’s Name**

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HOME LEARNING PACK

TERM 5

YEAR 9

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| --- | --- | --- | --- |
| **Learning Objective:** | Transformation  To be able to Describe a Rotation | **Name:** |  |
| **Date:** |  |
| **Do NOW Activity:** | | | |
| PRIOR KNOWLEDGE CHECK:   1. I can find perpendicular bisector using a compass 2. I can determine angle of rotation by looking at degree of turn on a side | | | |
| **THE MAIN EVENT** | | | |
| Centre of Rotation   1. Find two corresponding edges in the two images 2. Connect edges with a straight line 3. Use a compass to find the perpendicular bisector to each line 4. Where the bisectors cross is the centre of rotation   **Example # 1:**         1. **Rotation** 2. **Anticlockwise by 900** 3. **Centre of Rotation = (-3,1)** | | | |
| **PRACTICE #1:**  **PRACTICE #2** | | | |
| **PRACTICE #3** | | | |

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| **Learning Objective:** | Transformation  To be able to work with Enlargements using positive scale factor | **Name:** |  |
| **Date:** |  |
| **Do NOW Activity:** | | | |
| PRIOR KNOWLEDGE CHECK:   1. I can find a multiplying factor between two numbers 2. I can identify similar / congruent objects | | | |
| **THE MAIN EVENT** | | | |
| **Example # 1:** | | | |
| **PRACTICE #1:** | | | |
| **S.F** = Image Object side  Original Object Side  **EXAMPLE #2** | | | |
| **PRACTICE #2** | | | |

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| --- | --- | --- | --- |
| **Learning Objective:** | Transformation  To be able to work with Enlargements using Negative scale factor | **Name:** |  |
| **Date:** |  |
| **Do NOW Activity:** | | | |
| PRIOR KNOWLEDGE CHECK:   1. I can identify enlargements 2. I can describe enlargements with +ve scale factor | | | |
| **THE MAIN EVENT** | | | |
| Observation:  Enlarged shapes with negative scale factors appear flipped in opposite directions.    **Example # 1:** | | | |
| **PRACTICE #1:** | | | |
| **EXAMPLE #2** | | | |
| **PRACTICE #2**      Q5)  Q3)  Q1)  Q6)  Q4) | | | |
| **PRACTICE #3** | | | |

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| **Learning Objective:** | Transformation  To be able to work with Enlargements using fractional scale factor | **Name:** |  |
| **Date:** |  |
| **Do NOW Activity:** | | | |
| PRIOR KNOWLEDGE CHECK:   1. I can identify enlargements 2. I can describe enlargements with +ve scale factor | | | |
| **THE MAIN EVENT** | | | |
| **Example # 1:** | | | |
| **PRACTICE #1:**    Q3)  Q2) | | | |
| **EXAMPLE #2**      Q1) | | | |
| **PRACTICE #2**    Q3) | | | |
| **PRACTICE #3** | | | |