**Rubric for Project Mathematics Grade 9**

**Name and Surname:………………………………………………………………………………….. Name of School:…………………………………………………………………………………………………………….. G**

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| **Criterion** | **Below Expectations**  **(1 – 2) Marks** | **Near Expectations**  **(3 – 4) Marks** | **Approaching Expectations**  **(5 – 6) Marks** | **Meets Expectations**  **(7 – 8) Marks** | **Score** |
| **1.Graphing of a Figure** | * **Instructions were not followed.** * **Tables were completed incorrectly.** * **Ordered pairs written incorrectly.** * **Incorrect plotting.** * **Figure drawn not enclosed.** | * **Able to follow some of the instructions to convert Letter-to Number.** * **Completed some tables correctly.** * **Some ordered pairs written correctly.** * **Some points plotted correctly in the graph paper.** * **Some points are joined around the perimeter of the shape.** | * **Able to follow most of the instructions to convert Letter-to Number.** * **Completed most tables correctly.** * **Most ordered pairs written correctly.** * **Most points plotted correctly in the graph paper.** * **Most points are joined around the perimeter of the shape.** | * **Able to follow the instructions to convert Letter-to Number.** * **Completed the tables correctly.** * **Ordered pairs written correctly.** * **Accurately plotted ordered pairs in the graph paper.** * **Polygon is enclosed.** |  |
| **2.Translation**  **(x – 5; y-8)** | * **Completed the tables incorrectly not following the rule.** * **All ordered pairs listed for original and image written incorrectly.** * **Incorrect plotting.** * **Figures drawn incorrectly.** | * **Completed some the tables correctly using the rule.** * **Some ordered pairs listed for original and image written correctly.** * **Some ordered pairs are plotted accurately in the graph paper.** * **Drawn either the original or image correctly.** | * **Completed most the tables correctly using the rule.** * **Most ordered pairs listed for original and image written correctly.** * **Most ordered pairs are plotted accurately in the graph paper.** * **Drawn Original and Image with some errors.** | * **Completed the tables correctly using the rule.** * **Ordered pairs listed for original and image written correctly.** * **Accurately plotted ordered pairs in the graph paper.** * **Drawn both Original and Image correctly.** |  |
| **3. Translation**  **(x + 3; y + 5)** | * **Completed the tables incorrectly not following the rule.** * **All ordered pairs listed for original and image written incorrectly.** * **Incorrect plotting.** * **Figures drawn incorrectly.** | * **Completed some the tables correctly using the rule.** * **Some ordered pairs listed for original and image written correctly.** * **Some ordered pairs are plotted accurately in the graph paper.** * **Drawn either the original or image correctly.** | * **Completed most the tables correctly using the rule.** * **Most ordered pairs listed for original and image written correctly.** * **Most ordered pairs are plotted accurately in the graph paper.** * **Drawn Original and Image with some errors.** | * **Completed the tables correctly using the rule.** * **Ordered pairs listed for original and image written correctly.** * **Accurately plotted ordered pairs in the graph paper.** * **Drawn both Original and Image correctly.** |  |
| **4. Reflection in X - Axis** | * **Completed the tables incorrectly not following the rule.** * **All ordered pairs listed for original and image written incorrectly.** * **Incorrect plotting.** * **Figures drawn incorrectly.** | * **Completed some the tables correctly using the rule.** * **Some ordered pairs listed for original and image written correctly.** * **Some ordered pairs are plotted accurately in the graph paper.** * **Drawn either the original or image correctly.** | * **Completed most the tables correctly using the rule.** * **Most ordered pairs listed for original and image written correctly.** * **Most ordered pairs are plotted accurately in the graph paper.** * **Drawn Original and Image with some errors.** | * **Completed the tables correctly using the rule.** * **Ordered pairs listed for original and image written correctly.** * **Accurately plotted ordered pairs in the graph paper.** * **Drawn both Original and Image correctly.** |  |
| **5. Reflection in Y - Axis** | * **Completed the tables incorrectly, not following the rule.** * **All ordered pairs listed for original and image written incorrectly.** * **Incorrect plotting.** * **Figures drawn incorrectly.** | * **Completed some the tables correctly using the rule.** * **Some ordered pairs listed for original and image written correctly.** * **Some ordered pairs are plotted accurately in the graph paper.** * **Drawn either the original or image correctly.** | * **Completed most the tables correctly using the rule.** * **Most ordered pairs listed for original and image written correctly.** * **Most ordered pairs are plotted accurately in the graph paper.** * **Drawn Original and Image with some errors.** | * **Completed the tables correctly using the rule.** * **Ordered pairs listed for original and image written correctly.** * **Accurately plotted ordered pairs in the graph paper.** * **Drawn both Original and Image correctly.** |  |
| **6. Emblem** | * **Figure 1 not drawn clearly.** * **Drawn Figure 2 and 3 not according to transformations.** * **Sequence of transformations used not stated.** * **No colouring or decorations done on the Emblem.** * **Slogan or Motto not written.** | * **Drawn Figures with some errors.** * **Stated rules that are not link to the figures.** * **Coloured or Decorated the Emblem partially.** * **Slogan or Motto written partially not underneath the emblem.** | * **Drawn Figures with some errors.** * **Stated some sequences of transformations used.** * **Coloured or Decorated the Emblem partially.** * **Slogan or Motto written partially underneath the emblem.** | * **Drawn Figure 1 clearly.** * **Drawn Figure 2 and 3 according to transformations.** * **Stated sequence of transformations used.** * **Coloured or Decorated the Emblem.** * **Slogan or Motto written underneath the emblem.** |  |
| **7. Neatness and Presentation** | * **Incorrect Labelling.** * **Project is difficult to read.** | * **Several labels error.** * **Project not organised, not neat.** | * **Most vertices and axes labelled.** * **Project not organised and/ or neat.** | * **All accurate labels of vertices and axes.** * **Project is organised and neat** |  |
| **56** |

**TOTAL:**