

**MATHEMATICS**

**GRADE 9**

**TERM 3 2021**

**EXEMPLAR PROJECT : RUBRIC**

**TRANSFORMATION GEOMETRY**

**TRANSFORMATION GEOMETRY**

**DATE: TERM 3 2021**

**NAME OF LEARNER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GRADE 9: \_\_\_**

**TOTAL : 50**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **CRITERIA** | **0** | **1** | **2** | **3** | **4** | **5** | **MARK ALLOCATION** |
| **CONCEPTUAL UNDERSTANDING OF TRANSLATIONS** | Work on translations is not attempted. | Shows no understanding  of translations but an attempt to graph the translations is evident. | Shows limited understanding  of translations. May be unable to carry out the required manipulations to graph the translations. | Shows some understanding  of translations. Is able to partially carry out some of the required manipulations to graph the translations. | Shows general understanding  of translations. Is able to correctly carry out most of the required manipulations to graph the translations. | Shows complete understanding  of translations. Is able to correctly carry out all required manipulations to graph the translations. |  |
| **CONCEPTUAL UNDERSTANDING OF REFLECTIONS** | Work on reflections is not attempted. | Shows no understanding  of reflections but an attempt to graph the reflections is evident. | Shows limited understanding  of reflections. May be unable to carry out the required manipulations to graph the reflections. | Shows some understanding  of reflections. Is able to partially carry out some of the required manipulations to graph the reflections. | Shows general understanding  of reflections. Is able to correctly carry out most of the required manipulations to graph the reflections. | Shows complete understanding  of reflections. Is able to correctly carry out all required manipulations to graph the reflections. |  |
| **MATHEMATICAL SKILLS** | Work not attempted | Completely inaccurate, many errors and omissions result in completely incorrect transformations being graphed. | Limited accuracy, errors or omissions result in either the translations or reflections not being graphed. | Somewhat accurate, frequent errors or omissions in performing translations and reflections. | Generally accurate, few errors or omissions in performing translations and reflections. | Accurate and precise , no errors or omissions in performing translations and reflections. |  |
| **PLOTTING OF ORDERED PAIRS** | Work not attempted | Points are inaccurately identified. | Ordered pairs are evident but there are more than 6 errors. | Most points and ordered pairs are clearly listed with no more than 6 errors. | All points and ordered pairs are clearly listed with no more than 3  errors. | All points and ordered pairs are clearly listed and accurate with no errors. |  |
| **GRAPHING OF TRANSLATIONS** | Work not attempted | Graphing in the coordinate plane is not done carefully and is incomplete in many  places. | Lists some of the points and ordered pairs correctly. | Most of the graphing in the coordinate plane is correct and most points are  accurately identified. | Almost all of the graphing in the coordinate plane is correct and most points are  accurately identified. | Graphing in the coordinate plane is done carefully and points are accurately  identified. |  |
| **GRAPHING OF REFLECTIONS** | Work not attempted | Graphing in the coordinate plane is not done carefully and is incomplete in many  places. | Lists some of the points and ordered pairs correctly. | Most of the graphing in the coordinate plane is correct and most points are  accurately identified. | Almost all of the graphing in the coordinate plane is correct and most points are  accurately identified. | Graphing in the coordinate plane is done carefully and points are accurately  identified. |  |
| **CREATION OF IMAGE** | Work not attempted | Uses the transformations provided in the project.  Or  Completely inaccurate, many errors and omissions  Or  Graphing in the coordinate plane is not done carefully and is incomplete in many  places. | Uses one unique transformation.  or  Limited accuracy.  Or  Lists some of the points and ordered pairs correctly. | Uses two unique transformations. Somewhat accurate, frequent errors or omissions in performing translations and reflections.  Most of the graphing in the coordinate plane is correct and most points are  accurately identified. | Uses two unique transformations. Generally accurate, few errors or omissions in performing.  Almost all of the graphing in the coordinate plane is correct and most points are  accurately identified. | Uses two unique transformations. Accurate and precise , no errors or omissions in performing the transformations.  Graphing in the coordinate plane is done carefully and points are accurately  identified. |  |
| **DESCRIPTION OF IMAGE TRANSFORMATIONS** | Work not attempted | Transformations indicated are incorrect or not the transformations used to create the image. | Only states the type of transformation used | Identifies the sequence of transformations used with some errors or omissions. | Clearly Identifies the sequence of transformations used. | Clearly Identifies and correctly explains the sequence of transformations used |  |
| **MOTTO** | Work not attempted | Motto is attempted but not appropriate or incomplete. | Motto is attempted but not related to the question. | Motto is attempted but unclear. | Motto is clear but not adequately developed. | Motto is well thought out , clear and motivating |  |
| **PRESENTATION** | Work not attempted | Work is untidy and not organised. | Work is untidy but organised. | Work is neat. | Work is neat and organized. | Work is very neat and well organized, lines and points are clear and all shapes are coloured neatly. |  |
| **TOTAL** |  | | | | | |  |