Year 11 Mathematics Methods: Investigation 1 2020 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total: / 25

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| --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 |
| DESMOS Drawing | | | | |
| Image is complex, involving a range of function types. Domain and range have been limited to stop overlap of lines within the drawing. Inequalities have been used accurately to create shading within the drawing. | Image is complex, involving a range of function types. An attempt at limiting domain and range has been used to stop overlap but is not complete. Inequalities have been attempted to create shading within the drawing. | Image is complex, involving a range of function types. An attempt at limiting domain and range has been used to stop overlap but is not complete. | Image is complex, involving a range of function types. No attempt at limiting domain and range has been made. | Image is simple, involving a limited number of function types. |
| Functions are organised into folders. | Functions are listed by type, i.e. all linear functions, circles, quadratics listed together. | Functions are listed in an order that develops the drawing in a logical manner. | Functions are listed randomly and do not connect areas of the drawing. | Functions are listed but do not create a recognisable image. |
| Report | | | | |
| Information provided is relevant, clear and concise. Function types are discussed separately with their transformations noted. | Information provided is relevant, clear and concise. Functions types are noted but transformations are not discussed. | Information provided is relevant. Functions used are listed. | Information provided is relevant but unclear. Functions are written in paragraph form or information must be searched for. | Irrelevant information is provided in paragraph form. Function types are referred to but not identified from the diagram. |
| Domain and range of functions are noted and discussed. Reasoning for why the domain or range was limited is discussed. | Domain and range of functions are noted and discussed. | Domain and range of functions are identified. | Domain **or** range of functions are noted or referred to. | Domain or range of functions are not noted or referred to. |
| Inequality signs are noted and discussed as to their use. Key features of the diagram are noted, such as turning points. | Inequality signs are noted and discussed as to their use. | Inequality signs are noted. |  |  |