**Linear and Quadratic Folder Project Rubric**

**Major Assessment (26.25 points)**

Team Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**LEFT SIDE OF FOLDER: (8 points)**

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| --- | --- |
| **Standard** | **Met/Not Met** |
| (0.5) The left side of the folder is set up with correct sections and labels as outlined in the directions. |  |

**POINT SLOPE FORM SECTION**

|  |  |
| --- | --- |
| **Standard** | **Met/Not Met** |
| (0.25) Equation is clearly given |  |
| (0.5) Graph of equation is accurate, clear, and done on a coordinate plane and pasted into the folder |  |
| (0.5) Equation is re-written in slope intercept form |  |
| (0.5) Equation is re-written in standard form |  |
| (0.25) x intercept is stated (all work shown) |  |
| (0.25) y intercept is stated (all work shown) |  |
| (0.25) Domain and Range are stated |  |

**SLOPE INTERCEPT FORM SECTION**

|  |  |
| --- | --- |
| **Standard** | **Met/Not Met** |
| (0.25) Equation is clearly given |  |
| (0.5) Graph of equation is accurate, clear, and done on a coordinate plane and pasted into the folder |  |
| (0.5) Equation is re-written in point slope form |  |
| (0.5) Equation is re-written in standard form |  |
| (0.25) x intercept is stated (all work shown) |  |
| (0.25) y intercept is stated (all work shown) |  |
| (0.25) Domain and Range are stated |  |

**STANDARD FORM SECTION**

|  |  |
| --- | --- |
| **Standard** | **Met/Not Met** |
| (0.25) Equation is clearly given |  |
| (0.5) Graph of equation is accurate, clear, and done on a coordinate plane and pasted into the folder |  |
| (0.5) Equation is re-written in point slope form |  |
| (0.5) Equation is re-written in slope intercept form |  |
| (0.25) x intercept is stated (all work shown) |  |
| (0.25) y intercept is stated (all work shown) |  |
| (0.25) Domain and Range are stated |  |

**RIGHT SIDE OF FOLDER: (5.5 points)**

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| **Standard** | **Met/Not Met** |
| (0.5) The right side of the folder is set up with correct sections and labels as outlined in the directions. |  |

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| **Standard** | **Met/Not Met** |
| (1) Give examples of two parallel lines on the same coordinate plane with correct labels. They are accurate and done a provided coordinate plane that is pasted in the folder. |  |
| (1) Give examples of two perpendicular lines on the same coordinate plane with correct labels. They are accurate and done a provided coordinate plane that is pasted in the folder. |  |
| (1) Give examples of one horizontal and one vertical on the same coordinate plane with correct labels. They are accurate and done a provided coordinate lane that is pasted in the folder. |  |
| (1) Correct algebraic solution for the intersection of lines m and p. |  |
| (1) Lines m and p are graphed accurately on coordinate plane that is pasted into folder. |  |

**MIDDLE PIECE OF THE FOLDER: (12.75 points)**

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| **Standard** | **Met/Not Met** |
| (1) The middle piece of the folder is set up with correct sections and labels as outlined in the directions. |  |

**STANDARD FORM SECTION**

|  |  |
| --- | --- |
| **Standard** | **Met/Not Met** |
| (0.25) Equation is clearly given |  |
| (1) Graph of equation is accurate, clear, and done on a provided coordinate axis and pasted into the folder. Vertex and at least one other point are labeled. |  |
| (1) Axis of symmetry, vertex, domain, and range of the quadratic function are clearly stated and accurate. |  |

**VERTEX FORM SECTION**

|  |  |
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| **Standard** | **Met/Not Met** |
| (0.25) Equation is clearly given |  |
| (1) Graph of equation is accurate, clear, and done on a provided coordinate axis and pasted into the folder. Vertex and at least one other point are labeled. |  |
| (1) Axis of symmetry, vertex, domain, and range of the quadratic function are clearly stated and accurate. |  |

**INTERCEPT FORM SECTION**

|  |  |
| --- | --- |
| **Standard** | **Met/Not Met** |
| (0.25) Equation is clearly given |  |
| (1) Graph of equation is accurate, clear, and done on a provided coordinate axis and pasted into the folder. X-intercepts and vertex are clearly labeled. |  |
| (1) Axis of symmetry, vertex, domain, and range of the quadratic function are clearly stated and accurate. |  |

**SOLVING QUADRATIC EQUATIONS SECTION**

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| --- | --- |
| **Standard** | **Met/Not Met** |
| (1) Example of quadratic equation using square root to solve is given and solve accurately with all steps shown. |  |
| (1) Example of quadratic equation using factoring to solve is given and solve accurately with all steps shown. |  |
| (1) Example of quadratic equation using completing the square to solve is given and solve accurately with all steps shown. |  |
| (1) Example of quadratic equation using quadratic formula to solve is given and solve accurately with all steps shown. |  |
| (1) Each section has a complete sentence explaining why that method is best to use for each equation. |  |