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|  | PLTW_M_L_4CP |

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| **Project 4.1 Puzzle Part Combinations** |

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| Elements | Weight | 5 Points | 4 Points | 3 Points | 2 Points | 1-0 Points | Total |
| Puzzle Parts |  | Multiple combinations of three, four, five and six blocks. | Multiple combinations of three, four, five or six blocks. | Some combinations of three, four, five or six blocks. | Combinations restricted to three, four, five or six blocks. | Combinations other than three, four, five or six blocks. |  |
| Documentation |  | Student signed and dated each combination. | Student signed and dated most combinations. | Student only signed or dated most combinations. | Student signed and dated a few combinations. | Student did not sign and dated each combination. |  |
| **Sketching Technique** |  | Shows excellent line quality. Lines are straight, follow the isometric grid paper and are of the correct line weight. | Shows good line quality. Lines are fairly straight, follow the isometric grid paper and of the correct line weight. | Shows fair line quality. Lines are fairly straight, stray from the isometric grid paper and vary in thickness. | Shows fair line quality. Lines are not straight, stray from the isometric grid paper and vary in thickness. | Lines are feathered; straight lines appear as curves.  Lines converge. |  |
| **Proportion** |  | Elements are sized correctly and communicated effectively. | Most elements are sized correctly and communicate the design in an acceptable manner. | Some elements are sized correctly and communicate the design in an acceptable manner. | Elements are close to the correct relationship with some distortion. | Elements have no relationship with each other. Detail is difficult to ascertain. |  |
| Shading |  | Shading is appropriately applied.  Shading enhances the image. | Shading is applied.  The shading does make the visual appearance of the object pleasing to the eye. | Shading is applied and does not distract from the three dimensional image. | Shading is applied.  The shading needs improvement. | Shading detracts from the three dimensional image |  |