Unit Project Rubric:   
Squares and Square Roots

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|  | **Not Yet Adequate** | | **Adequate** | | **Proficient** | | **Excellent** | | |
| Conceptual Understanding | | | | | | | | |
|  | | little understanding; may be unable to demonstrate or explain:  – if a given number is perfect square  – which factor of a given perfect square is the square root  – approximate square root of a non-perfect square | | some understanding; partially able to demonstrate or explain:  – if a given number is perfect square  – which factor of a given perfect square is the square root  – approximate square root of a non-perfect square | | shows understanding; able to demonstrate and explain:  – if a given number is perfect square  – which factor of a given perfect square is the square root  – approximate square root of a non-perfect square | | shows depth of understanding; in various contexts, demonstrates and explains:  – if a given number is perfect square  – which factor of a given perfect square is the square root  – approximate square root of a non-perfect square |
| Procedural Knowledge | | | | | | | | |
|  | | limited accuracy; major errors or omissions in determining:  – square of a number  – square root of a perfect square  – approximate square root of a non-perfect square | | partially accurate; frequent minor errors or omissions in determining:  – square of a number  – square root of a perfect square  – approximate square root of a non-perfect square | | generally accurate; few errors or omissions in determining:  – square of a number  – square root of a perfect square  – approximate square root of a non-perfect square | | accurate and precise; rarely makes errors or omissions in determining:  – square of a number  – square root of a perfect square  – approximate square root of a non-perfect square |
| Communication | | | | | | | | |
|  | | does not record and explain reasoning and procedures clearly and completely and does not include technology | | records and explains reasoning and procedures with partial clarity; may be incomplete; partially explain the use of explain | | records and explains reasoning and procedures clearly and completely and the uses of technology | | records and explains reasoning and procedures with precision and thoroughness and the uses of technology |

Project/Poster: Organization

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|  | The final product seems incomplete and disorganized. Diagrams/write-ups are difficult to read or are missing. | The final product is partially organized. More time and effort could have improved the layout. Diagrams/write-ups are visible but may be hard to read. | The final product is well organized and the layout is well thought out for the most part. Diagrams/write-ups are easy to read. | The final product is extremely well organized, with thought put into the layout. Diagrams/write-ups are neatly done and easy to read. |

Project/Poster: Creativity

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|  | This project is very simple and ordinary. Ideas are not original. | This project has unique components. Some ideas are original. | This project displays knowledge in a unique way. Ideas are original. | This project displays knowledge in an exceptionally unique way. Ideas are original and meaningful. |