**Rubric – Paper Airplane Activity (Data Management)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Assessment Category | Level 1 | Level 2 | Level 3 | Level 4 |
| Knowledge & Understanding  |
| * Designs appropriate data collection methods
* Collects and organizes data in appropriate space and tables
* Represents data using a frequency table
* Represents data in an appropriate graph to display measuring flight in time (s)
* Determines the mean, median, mode, and range in a set of data
 | limitedlimitedlimitedlimitedlimited | somesomesomesomesome | considerableconsiderableconsiderableconsiderableconsiderable | thoroughthoroughthoroughthoroughthorough |
| Thinking |
| * Makes strong predictions and relations based on the data gathered
* Makes convincing arguments based on data gathered
* Creates a plan of action for displaying data collection and for conducting the experimented
* Identifies and deciphers trends when analysing data
 | limitedlimitedlimitedlimited | somesomesomesome | considerableconsiderableconsiderableconsiderable | thoroughthoroughthoroughthorough |
| Communication |
| * Explains mathematical thinking
* Communicates using complete and full sentences to justify answers about the data
* Uses appropriate vocabulary and mathematical terminology
 | limitedlimitedlimited | somesomesome | considerableconsiderableconsiderable | thoroughthoroughthorough |
| Application |
| * Applies data management skills in familiar contexts
* Transfers knowledge and skills to new contexts
* Makes connections among concepts
 | limitedlimitedlimited | somesomesome | considerableconsiderableconsiderable | thoroughthoroughthorough |