Use this checklist and star rating for each student to assess their demonstrated knowledge and skills related to the solar installations data task.

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| --- | --- |
| S | **Supported (The student needs someone to help with this. They are learning how to.)** |
| A | **Acquired (The student can do this by themselves. They’ve got it.)** |
| M | **Mastered (The student is confident and can do this easily and quickly and in different contexts. They can help others.)** |

A

|  |  |  |
| --- | --- | --- |
| **Demonstrated knowledge/skills** | M  S | **Comments** |
| Acquiring and storing data  The student **explains** the way data in a spreadsheet may need to be cleaned up. They may reference:   * Postcode data * Blank cells * Dates   The student can store, save, access and use standard file naming conventions when using spreadsheets. (ICT Capability: Managing and operating ICT)  Organising data  Ordering, sorting and arranging data can help the student interpret patterns or trends in data.   * The student explains the different methods they have used to organise and sort data. * The student explains the value in organising data referring to specific examples   The student can:   * + Sort and filter by columns   + Create a visual display of the data such as a histogram, pie chart or line graph and explain the choice of chart/graph.   + Plot location data using online mapping software. |  |  |
| Data calculations  The student can:   * Calculate the average solar installations per postcode per state, manually copying into a separate sheet * Calculate the average solar installations per postcode per state, automatically by writing a script to run in Python, for example. |  |  |
| Interpret data  Use data and its characteristics, properties and patterns to form a conclusion or derive meaning from it.  The student can:   * Compare their data to media report that have reported on the same data set. * Explain ways data might be misrepresented. |  |  |