

Solar Energy Installations: Assessment checklist

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



Supported

(The student needs someone to help with this. They are learning how to.)



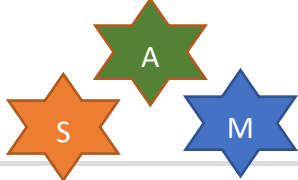
Acquired

(The student can do this by themselves. They've got it.)



Mastered

(The student is confident and can do this easily and quickly and in different contexts. They can help others.)

Demonstrated knowledge/skills		Comments
<p>Acquiring and storing data</p> <p>The student explains the way data in a spreadsheet may need to be cleaned up. They may reference:</p> <ul style="list-style-type: none"> • Postcode data • Blank cells • Dates <p>The student can store, save, access and use standard file naming conventions when using spreadsheets. (ICT Capability: Managing and operating ICT)</p> <p>Organising data</p> <p>Ordering, sorting and arranging data can help the student interpret patterns or trends in data.</p> <ul style="list-style-type: none"> • 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 <p>The student can:</p>		

<ul style="list-style-type: none"> ○ 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. 		
<p>Data calculations</p> <p>The student can:</p> <ul style="list-style-type: none"> ● 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. 		
<p>Interpret data</p> <p>Use data and its characteristics, properties and patterns to form a conclusion or derive meaning from it.</p> <p>The student can:</p> <ul style="list-style-type: none"> ● Compare their data to media report that have reported on the same data set. ● Explain ways data might be misrepresented. 		