Analysing Data

Sunday, 10 July 2016

4:19 PM

# Summary

This session aims to

Integration Friendly

EAL Friendly

High-Achiever Friendly

# Background Knowledge

There is no specific prior knowledge required for this lesson

# Fundamentals of this Lesson

|  |  |
| --- | --- |
| Learning Intention | Success Criteria |
| * + Understand the difference between data and information   + To be able to filter information   + Understand quantitative and qualitative data |  |
| Core Content | Activities / Assigned Questions |
| |  |  | | --- | --- | | C:\E55C20E5\FD1246DE-9625-4698-9AA9-CA3FC26146FF_files\image001.png |  |     **Analysis of data - Census survey. 1 LESSON**  Students complete Census survey and save the Infograph to the public folder. They are to use the data on the infograph to answer the questions in this worksheet:  <http://spotlight.abs.gov.au/>    <<Census\_Infograph\_Analysis.docx>>    **Data Quantitative vs Qualitative**  Quantitative   * Quantities   + Numbers   + Something that can be counted     - i.e. High, Medium, Low   + Closed Questions   Qualitative   * Quality / Detailed Answers * Open Ended Questions | |  |  |  |  | | --- | --- | --- | --- | | C:\E55C20E5\FD1246DE-9625-4698-9AA9-CA3FC26146FF_files\image002.png | Additional Core Tasks    |  |  | | --- | --- | |  | **Consolidation Survey Task**  **1 LESSON: Using excel to graph and find a totals using =SUM...**  Students undertake survey on household items using one another, and use the results to find totals (using =SUM).  Students may need two lessons (depends on group) to finish a fully formatted table.        Covers the following content:   1. Collecting Data 2. Analysing Data   <<Household\_items\_Survey.docx>> | | | C:\E55C20E5\FD1246DE-9625-4698-9AA9-CA3FC26146FF_files\image003.png | Integration Tasks | | C:\E55C20E5\FD1246DE-9625-4698-9AA9-CA3FC26146FF_files\image004.png | EAL Support Tasks*Vocab*  * ***Example*** Description  *Activity* Refer to Integration Task | | C:\E55C20E5\FD1246DE-9625-4698-9AA9-CA3FC26146FF_files\image005.png | Extension Tasks No extension tasks exist for this content | |
| Helpful Teacher Resources | Staff Feedback |
|  | Before you collect data, you need to know why?  This makes sure that you ask the right questions    Create questions the data intends to answer  i.e. "Food Survey" will tell us what the classes favourite foods are.    Filtering Data (Timely - sort by date (Excel table??) |

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# Victorian Curriculum Links

Analyse and visualise data using a range of software to create information, and use structured data to model objects or events

[(VCDTDI038)](http://victoriancurriculum.vcaa.vic.edu.au/Curriculum/ContentDescription/VCDTDI038)

* using features and functions of software to summarise data to create information, for example calculating a simple budget of income and payments and creating a summary table for analysis
* visualising data to create information, for example displaying geocoded data on a map
* applying a set of conditions to a spreadsheet to organise and filter data, for example using conditional formatting to highlight the state of particular cells, and filtering and sorting categorical data using column filters
* describing the attributes of complex objects, for example defining the records, fields, formats and relationships of a simple dataset