Taking Learning Outdoors

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| Learning experience and season | |
| Winter: Information Handling | |
| CfE Level: Second | |
| Experiences and Outcomes and associated benchmarks | |
| **E&Os**  I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.  **MNU 2-20b** | **BMs**    **MNU 2-20b**   * Devises ways of collecting data in the most suitable way for a given task. * Analyses, interprets and draws conclusions from a variety of data. * Displays data appropriately making effective use of technology and chooses a suitable scale when creating graphs. |
| Overview of learning experience | |
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| Outline of learning | |
| **LI/SC**  To collect and present data   * I can gather data using tally marks. * I can create a table. * I can create bar and line graphs. | **Resources**   * Objects from the environment * Chalk * Branches |
| **Description of learning experience and assessment opportunities:**  This example uses litter in the playground or local area, but the same activity could be done collecting information about plants, leaf types, rocks and minerals etc.  Over the course of the week pupils will collect litter in the playground and use tally marks to record the different items they have collected e.g. crisp packets, cans, plastic bottles etc’  Before being disposed of pupils can create a pictogram using the items to visually display the data, branches or chalk can be used for the axis. Each day, using chalk the pupils draw a table of the results and represent the information on a bar chart so that it can be seen by other pupils.  At the same time a line graph can be created to show the total number of items of litter each day.  Repeat the activity each day, recording the data on the bar and line graphs.  Is there a downward trend on the line graph over the course of the week? Does the litter spike on certain days? Is litter more common after break time or lunchtime? What items could be recycled? | |
| Consideration of risk | |
| Gloves and litter pickers must be used.  Avoid broken or sharp objects.  Hand gel must be used.  Take care in wet or icy conditions. | |
| Taking it further – what else could you do? | |
| Share the findings with other pupils at a school assembly. Use Microsoft Excel to record the information digitally and use it to generate graphs and charts. | |