



TOPIC: VEGETABLE GROWTH

National Curriculum Area/s: Mathematics

Title: *Recording, graphing and analysing growth of vegetable plants.*

Year level(s): 2/3

Strands

- Statistics and Probability – Data representation and interpretation
- Measurement and Geometry – Using units of measurement
- Number and Algebra – Number and place value

Understanding Goals

- Identify questions or issues for categorical variables. Identify data sources and plan methods of data collection and recording (ACMSP068)
- Collect data, organise into categories and create displays using lists, tables, picture graphs and simple column graphs, with and without the use of digital technologies (ACMSP069)
- Interpret and compare data displays (ACMSP070)
- Measure, order and compare objects using familiar metric units of length, mass and capacity (ACMMG061)
- Recognise, model, represent and order numbers to at least 10 000 (ACMNA052)

Possible links to other curriculum areas

- Writing – Daily/weekly writing of observations and interpretations.
- Art – still line drawings.
- Writing – weekly journal entries of observations and changes.
- T&E – planning and making an appropriate vegetable pot for growing the vegetable plant.
- Maths – Measurement and geometry: Shape – making 3D models and deciding which model would be suitable for a vegetable pot.
- For more suggestions see the 'Vegetables' Cross Curriculum Plan on the Smarty Plants website.

ACTIVITY LESSON PLAN

1. Discuss with the students that over the next several weeks vegetables will be grown. Talk about the various vegetables being used.
2. As a group, make a chart that predicts which plant they think may be the fastest growing, the most fruit, the biggest leaves, etc.
3. Set up a model of a pictograph/bar/column graph to allow the children to see where they are heading.
4. Discuss how to record the growth and units of measure to be used (standard or non-standard). Depending on the age the unit will vary from non-standard (blocks) to more specific standard (cm's and mm's).
5. Over the time allow for recording to be modelled, shared and finally lead to more student controlled recording.
6. Discuss the observations regularly, making predictions, analysing the findings etc.

MODIFICATIONS FOR OTHER YEAR LEVELS:

For older year groups, the students will have been previously exposed to a variety of graphing and recording methods (Bar/column, Line, Pie, etc). This could be left as an open-ended activity where you give them the Activity explanation of "recording the growth of various vegetables" and allowing them to select the most appropriate form of presenting their findings.