



TOPIC: VEGETABLE WORD PROBLEMS

National Curriculum Area/s: Mathematics

Title: *Addition and Subtraction Word Problems – Result Unknown.*

Year level(s): 2/3

Strands

- Number and Algebra – Number and place value

Understanding Goals

- Apply place value to partition, rearrange and regroup numbers to at least 10 000 to assist calculations and solve problems (ACMNA053)
- Recognise and explain the connection between addition and subtraction (ACMNA054)

Possible links to other curriculum areas

- Writing – Letters, narratives, poetry.
- Art – Cover designs for Recipe Book.
- T&E – planning and making an effective garden bed for growing the vegetable plant.
- Maths – Measurements of ingredients, Weights of vegetables - comparing vegetables, Graphing - pictographs, bar, column, line, pie.
- For more suggestions see the 'Vegetables' Cross Curriculum Plan on the Smarty Plants website.

ACTIVITY LESSON PLAN

1. Begin as a whole class to review the Part-Part-Whole strategy for calculating addition and subtraction problems connected to Word Problems or Number Stories. The children can work together to solve a variety of examples on the board.
2. Once the children have shared, modelled and been guided through the examples as a group have them move back to their own places to work independently on several problems of their own. The different abilities can be catered to with appropriate level of numbers being used, offering concrete materials if needed and support from peers/teacher. * See *sample word problems with P-P-W format for calculating*.
3. Discuss the findings before moving on to the next level of Word Problems involving different strategies (Eg. start unknown, change unknown).

MODIFICATIONS FOR OTHER YEAR LEVELS:

For older year groups, the students will have much higher numbers to work with and also include multiplication and division. They will be using a variety of calculation strategies rather than the part-part-whole method.

ADDITION AND SUBTRACTION WORD PROBLEMS PART-PART-WHOLE STRATEGY

There were 5 carrots and 3 potatoes. How many vegetables did we have altogether?

5	3
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Mr Smith picked 4 cabbages. The next day he picked 7 tomatoes. How many vegetables did he have in his basket?

4	7
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Miss Brown had 12 lettuce and 6 mushrooms. How many pieces of vegetable did she have on the table?

12	6
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