# Number and Algebra: Fractions and Decimals: Half of a Quantity 

## Australian Curriculum

This lesson plan could be used to support the teaching and learning of the following Content Descriptions from the Australian Curriculum.
Y1 - Number and Algebra, Fractions and Decimals
Recognise and describe one-half as one of two equal parts of a whole (ACMNA016).
$\left.\begin{array}{|l|l|l|}\hline \begin{array}{l}\text { Child-Friendly Aim: } \\ \text { I can find } \frac{1}{2} \text { of a quantity, weight or } \\ \text { measure. }\end{array} & \begin{array}{l}\text { Success Criteria: } \\ \text { I can find } \frac{1}{2} \text { of a quantity. } \\ \text { I can find } \frac{1}{2} \text { of measures of length, weight or } \\ \text { capacity. } \\ \text { I can explain why } 2 \text { halves make 1 whole. }\end{array} & \begin{array}{l}\text { Resources: } \\ \text { Lesson Pack } \\ 3 \text { sets of balance scales }\end{array} \\ \text { Construction bricks, sandwich bags and sticky labels, } \\ \text { string and scissors, water tray with various sized } \\ \text { clear containers - 2 of each kind, water coloured with } \\ \text { food colouring, small weights, rulers } \\ \text { Capacity containers marked with a scale }\end{array}\right\}$

Prior Learning: It will be helpful if children understand that half is one of two equal sized pieces or groups.

## Learning Sequence

Story Time: Hand out several Digit Cards to each of the children. Read through the story on the Lesson Presentation.
If the children have the answer to a fraction in the story they turn that card face down. The first child to turn over all

their cards is the winner. \begin{tabular}{l}
Primary Building Company: Read the information on the Lesson Presentation to introduce the task. Your class are <br>
the building company and they are going to make sure the resources are measured out to build the two houses. Introduce <br>
the three activities.

 

What Is a Half? Use this slide to assess children's prior knowledge. Can they verbalise what is meant by a half? Can <br>
they draw a picture to explain their thinking? As the numbers fly in on the slide emphasise that half is one of two same <br>
size or equal value pieces.
\end{tabular}

Ready to Build? Take feedback from the three activities and show some examples, reminding children that if we put two halves together we end up with one whole quantity. Demonstrate this, for example by pouring half a container of water into another half full container, showing that you end up with a full container of water. As a reward for their hard work the children get to watch the two houses being built! Do children notice that there is half of everything in each house?

## Masterit

Measureit: Measure everyday objects using standard or non-standard units. Can children find half of the measure? Explore which numbers are straightforward and which don't split into equal halves.
Strideit: In the hall or playground give a child a digit card. That child must take that many strides as the rest of the group count. The other children take half as many strides, while the first child counts and checks they are correct.
Timeit: Children time how long half the group can hop, skip or jump for. They then repeat the action for half the time.
Spendit: Give children an amount of money and ask them to calculate and spend half.

