

# Number and Algebra: Fractions and Decimals:

## Half of a Set of Objects

### 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)

<b>Child-Friendly Aim:</b> I can find $\frac{1}{2}$ of a set of objects.	<b>Success Criteria:</b> I can share the objects equally to find $\frac{1}{2}$ . I can explain that $\frac{1}{2}$ is one of 2 equal sized groups or pieces. I can say why 2 halves make 1 whole.	<b>Resources:</b> <a href="#">Lesson Pack</a> Whiteboards and markers Playdough Glue sticks and scissors
	<b>Key/New Words:</b> Fraction, half, halves, $\frac{1}{2}$ .	<b>Preparation:</b> Differentiated <a href="#">Pirate Treasure Activity Sheets</a> – one per child

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

### Learning Sequence

	<b>Doubling Dog and Halving Hippo:</b> Doubling Dog doubles every number he sees. Halving Hippo halves every number. Say a number and click on the <a href="#">Lesson Presentation</a> to reveal one of the characters. How quickly can the children work out the answer?	
	<b>What Is a Half?</b> Can the children come up with an exact explanation of what $\frac{1}{2}$ is?	
	<b>Shiver Me Timbers, I Spy Treasure!</b> Explain to the children that Pirate Jack and Pirate Jenny have found some treasure and need their help to share it equally. They both need to have exactly half or there will be a mutiny! Talk through each slide, letting children decide with a partner how much treasure each pirate will get. Can children explain what needs to happen when there is an odd number of items? Can they work out the total quantity of objects when shown half?	
	<b>Pirate Treasure Activity:</b> Children complete the differentiated <a href="#">Pirate Treasure Activity Sheets</a> . <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">             Children work in pairs, using the <a href="#">Pirate Treasure Activity Sheet</a> as a guide to make the pirate treasure with playdough, before sharing the objects equally to find half.         </div> <div style="text-align: center;">             Children complete the <a href="#">Pirate Treasure Activity Sheet</a> by cutting and sticking the treasure, then drawing half to match the half already shown.         </div> <div style="text-align: center;">             Children complete the <a href="#">Pirate Treasure Activity Sheet</a> by cutting and sticking the treasure, then finding the total quantity of objects from a given half.         </div> </div>	
	<b>How Did You Share the Treasure?</b> Discuss children's work, taking feedback and sharing successes.	

### Masterit

**Buildit:** Use construction materials to build towers or shapes that can be halved.

**Paintit:** Paint dots on half a piece of paper. Fold the paper over so the clean half goes over the painted half. Open the paper up. What do the children see?

**Drawit:** Ask children to draw half of something: half a house, half a flower or half an amount of objects like biscuits. Get a partner to draw the other half and children can work together to find out the whole amount.