Hundredths and tenths

National Curriculum attainment target

• Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten

Lesson objectives

- Count up and down in hundredths
- Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten

Previous related lesson

None

Prerequisites for learning

Pupils need to:

• have an understanding of fractions and the role of the denominator

Vocabulary

hundredths, tenths, denominator

Future related lesson

Unit 6, Week 2, Lesson 3

Success criteria

Pupils can:

- count on in hundredths from any hundredths fraction
- identify the fraction as hundredths
- write the correct fraction



Getting Started

• Choose an activity from Number - Fractions.

Connect Year 4, Unit 6, Week 2

Teach

Resources

mini whiteboard, pen and eraser (per child)



- Display: Slide 1. Establish that there are one hundred beads on the bead string.
- Ask: If I write 0 at one end and 1 at the other end of the bead string, what fraction would each bead be? Ask some children to share their ideas.
- Establish that each bead is one hundredth, as the space between 0 and 1 has been divided into one hundred parts. Write $\frac{1}{100}$ on the board.
- Say: Let's count in hundredths from 0. Count as a class. After a while stop and ask: Where are we up to on the bead string? Ask a child to come and point.
- Say: Write the fraction on your board.
- Repeat several times.

• Repeat, counting backwards.



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- Ask: If we want to find a hundredth of something, what do we need to divide by? Establish that, like all other fractions, we divide by the denominator.
- Say: Hundredths may seem like a strange fraction to learn about, but hundredths and tenths are an important part of our number system. We will learn more about hundredths next time we learn about decimals.
- Display: Slide 2. Say: Here is one whole square. If we want to divide it into hundredths, what has to happen?



- Ask some pairs to share their ideas and explain why. Display: Slide 3 to show the hundredths.
- Display: Slide 4. Ask: Here are a hundred one pence coins. What are they hundredths of? Establish that they are hundredths of one pound.
- Say: We have seen three images of hundredths. Now let's think about tenths.
- Ask: What do we divide by to find tenths? Write $\frac{1}{10}$ on the board.
- Ask: How do you think tenths and hundredths go together? Share children's ideas.
- Display: Slide 5. Say: This square is divided into tenths.
- Say: If one-tenth is divided by ten, it becomes hundredths, as it has got ten times smaller. Display: Slide 6 to show the tenths, then Display: Slide 7 to show the hundredths..

Individualised Learning

Refer to Activity 2 from the Learning activities on page 248. Pupil Book 4B: – Page 21: Hundredths and tenths

Progress Guide 4: - Support: Year 4, Unit 6, Week 2, Lesson 2: Hundredths

Resources: scissors, coloured pencils (per child)



Overcoming Barriers

• Understanding hundredths is a key concept for children to help them understand decimals. However, they need a solid understanding of simple fractions before moving on to hundredths.