

# Count Forwards and Backwards by 1s.

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### Differentiate and Assess

Not every student will be ready to investigate this concept at this Level and so we will need to differentiate to ensure every student is learning at their leading edge. Select the Differentiate button on this screen.

### Integrate

Every mathematical concept is integrally related to other mathematical concepts. Teaching and learning related concepts simultaneously develops deep relational understanding. Select the Integrate button on this screen.

### Intervene

Some students may not yet be ready to investigate this concept at any Level, and so we will need to provide some intervention. Select the Intervention button on this screen.

# COUNT FORWARDS AND BACKWARDS BY 1s.

## EXPLICIT TEACHING PLAN OVERVIEW PAGE

THIS PAGE IS A SUMMARY OF THE EXPLICIT TEACHING PLAN, INCLUDING STRATEGIC QUESTIONS, AND DESCRIBING THE SEQUENCE WHICH WILL OCCUR OVER MULTIPLE LESSONS.

### RESOURCES:

#### WHAT COULD WE DO?

Children:

- count forwards and backwards by ones to at least 10, then 20, then 100
- explain they are saying the same numbers when they count forwards and backwards
- explain the numbers are always in the same order
- sing songs involving counting forwards and backwards by 1s
- listen to stories about counting forwards and backwards counting by 1s

#### WHAT LANGUAGE COULD WE USE TO EXPLAIN AND ASK QUESTIONS?

Children:

- Ask questions about counting by 1s, for example,
  - How do we count forwards?
  - How do we count backwards?
  - Do we say the same numbers when we count forwards and backwards?
  - Are the numbers always in the same order?

# COUNT FORWARDS AND BACKWARDS BY 1s.

## EXPLICIT TEACHING PLAN

FULL EXPLICIT TEACHING PLAN, EMBEDDING DEEP RELATIONAL UNDERSTANDING, METALANGUAGE, AND QUESTIONS THAT MAY BE USED OVER MULTIPLE LESSONS.

### WHAT COULD WE DO?

Children think about, talk and listen to a friend about, then have the opportunity to share what they already know.

*Children count backwards as often as they count forwards to develop equal capacity at both.*

As children count to 10, record the numbers on the board, for example, 1 2 3 4  
5 6 7 8 9 10

As children count backwards, point to each number

Point to each number as children count forwards.

Point to each number as children count backwards.

### WHAT LANGUAGE COULD WE USE TO EXPLAIN AND ASK QUESTIONS?

- ▶ Today we're going to investigate counting forwards and backwards by ones.
- ▶ What do you already know about counting forwards and backwards by 1s?
- ▶ Talk to a friend about counting forwards and backwards by 1s.
- ▶ Is anybody ready to share what they are thinking about counting forwards and backwards by 1s?
  
- ▶ Let's count forwards from one to ten – 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
- ▶ Let's count backwards from 10 – 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0
  
- ▶ Did we say the same numbers when we counted backwards as when we counted forwards? Let's investigate!
- ▶ Let's count forwards again from one to ten – 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
- ▶ Now let's count backwards from 10 – 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0
- ▶ Did we say the same numbers when we counted backwards as when we counted forwards?
- ▶ Did we just say them backwards?

*Children develop their capacity to count forwards and backwards separately from reading and writing numerals.*

10 Little Indians (Witches) is available on YouTube.

- ▶ When we count forwards, what do we say?
- ▶ Do we say numbers when we count forwards?
- ▶ When we count backwards, what do we say?
- ▶ Do we say numbers when we count backwards?
  
- ▶ What are these symbols I've recorded here?
- ▶ Are these symbols, numbers?
  
- ▶ Could we start counting forwards from 3? Let's try! 3, 4, 5, 6, 7
- ▶ Could we start counting backwards from 7? Let's try! 7, 6, 5, 4, 3, 2, ...
  
  
- ▶ I know a poem that involves counting forwards.
- ▶ Let's say it together!
- ▶ 1 2 3 4 5, Once I caught a fish alive, 6 7 8 9 10, Then I threw it back again! Why did you let it go? Because it bit my finger so! Which finger did it bite? Here this small one on the right!
  
- ▶ I know a poem that involves counting forwards and backwards.
- ▶ Let's say it together!
- ▶ 1 little, 2 little, 3 little Indians, 4 little, 5 little, 6 little Indians, 7 little, 8 little, 9 little Indians, 10 little Indian boys. 10 little, 9 little, 8 little Indians, 7 little, 6 little, 5 little Indians, 4 little, 3 little, 2 little Indians, 1 little Indian boy.
  
- ▶ I know another poem that involves counting forwards.
- ▶ Let's say it together!
- ▶ 1 2 buckle my shoe, 3 4 shut the door, 5 6 pick up sticks, 7 8 lay them

You could read the book, 1, 2, Buckle My Shoe by, Anna Grossnickle Hines.

1, 2 Buckle my Shoe is available on YouTube.

5 Little Ducks is available on YouTube.

10 Little Monkeys is available on YouTube.

This Old Man is available on YouTube.

straight, 9 10 a big fat hen

▶ I know another song that involves counting backwards.

▶ Let's sing it together!

5 little ducks went out one day, over the hill and far away. Mother duck said 'quack, quack, come back' but only 4 little ducks came back.

▶ 4 little ducks went out one day, over the hill and far away. Mother duck said 'quack, quack, come back' but only 3 little ducks came back.etc.

▶ I know another poem that involves counting backwards.

▶ Let's say it together!

10 little monkeys jumping on the bed. One fell off and bumped his head. Mummy called the doctor and the doctor said, 'No more monkeys jumping on the bed!'

9 little monkeys jumping on the bed. One fell off and bumped his head. Mummy called the doctor and the doctor said, 'No more monkeys jumping on the bed!'

8 little monkeys jumping on the bed. One fell off and bumped his head. Mummy called the doctor and the doctor said, 'No more monkeys jumping on the bed!' etc.

▶ I know a song that involves counting forwards.

▶ Let's sing it together!

▶ This old man, he played 1, he played nick-nack on my drum, with a nick-nack paddy whack, give the dog a bone, this old man came rolling home!

This old man, he played 2, he played nick-nack on my shoe, with a nick-nack paddy whack, give the dog a bone, this old man came rolling home!

This old man, he played 3, he played nick-nack on my knee, with a nick-nack paddy whack, give the dog a bone, this old man came rolling home!

This old man, he played 4, he played nick-nack on my door, with a nick-nack paddy whack, give the dog a bone, this old man came rolling home!

5 Little Speckled Frogs is available on YouTube.

This old man, he played 5, he played nick-nack on my hive, with a nick-nack paddy whack, give the dog a bone, this old man came rolling home!

► I know a song that involves counting forwards and backwards.

► Let's sing it together!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10. 10, 9, 8, 7, 6, 5, 4, 3, 2, 1.

1, 2, 3, 4, 5, 6, 7, 8, 9, 10. 10, 9, 8, 7, 6, 5, 4, 3, 2, 1.

Mary the milkmaid was milking a cow. The trouble with Mary, she didn't know how. Along came the farmer and gave her the sack. So she turned the cow over and poured the milk back!

► I know another song that involves counting backwards.

► Let's sing it together!

5 little speckled frogs, sat on a great big log, eating some most delicious bugs, yum, yum! One jumped into the pool, where it was nice and cool, now there are 4 speckled frogs.'

4 little speckled frogs, sat on a great big log, eating some most delicious bugs, yum, yum! One jumped into the pool, where it was nice and cool, now there are 3 speckled frogs. etc