## Any coloured slides will be enlarged at the end of this document.

# Counting to 9 and 10

## Learning focus

This week, children will learn to count to 10. They will be introduced to the numbers 9 and 10 and use the ten frame to scaffold their counting to 10.

### COMMON MISCONCEPTIONS

Children may count too few or too many. Counting the same object more than once is common. Children should be encouraged to line up objects when counting and touch each object as they count. Ask:

 Have you counted carefully? Can you check by counting again slowly?

Children may think that objects need to be in a single row to be countable. Show 6–10 counters in one row, then move them into two rows as represented on a ten frame. Ask:

 How many counters are there in this row? How many counters are there now? How many counters fill this part of the ten frame?

### Small steps

- Previous step: Counting to 6, 7 and 8
- This step: Counting to 9 and 10
- Next step: Comparing groups up to 10

### KEY LANGUAGE

**In lesson:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, one, two, three, four, five, six, seven, eight, nine, ten, how many, count, group, same, different, totals

Other language to be used by the teacher: collections, altogether, ten frame, dice, method

#### STRUCTURES AND REPRESENTATIONS

ten frame, multilink cubes, counters

### RESOURCES

Mandatory: ten frame, counters, multilink cubes, box of buttons

To start each lesson this week, I would like you to practise counting up in 1s to 10, moving on to counting backwards in 1s from 10. Counting backwards can be difficult so here are a few videos/songs to help you:

https://www.youtube.com/watch?v=N3Zu3bl12Q8

https://www.youtube.com/watch?v=Z1E6JwGYhOY

https://www.youtube.com/watch?v=T0ooQv7oHvw

One representation the children will come across this week is the tens frame.

**Ten frame:** The ten frame helps children visualise 10. It will also help strengthen children's fluency with numbers up to 10, demonstrating how they can be arranged in different ways but still be worth the same amount.

Children may place counters or objects like buttons on here.

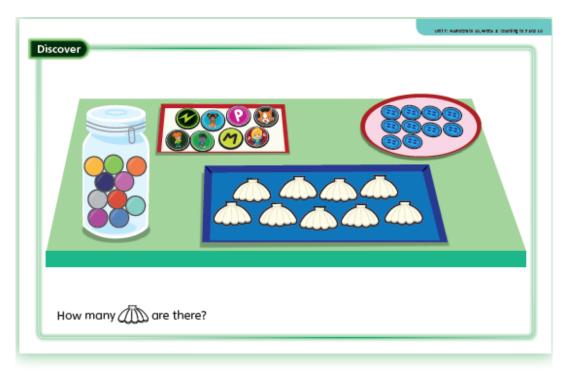
<u>Tens frames, images for teaching, worksheets and part-whole models for this week's lessons can be found at the end of this document.</u>

## Monday -

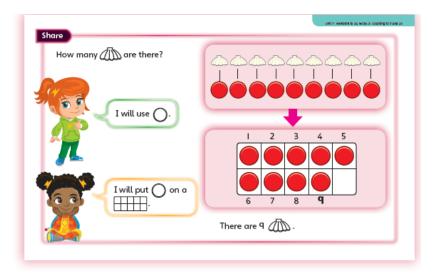
**IN FOCUS** Children use one-to-one correspondence to count objects up to 10. They continue to develop their understanding of cardinality.

ASK

- How many containers are there in the picture?
- What different items can you see?
- Can you count the shells by pointing to each shell as you count?
- How can you use counters to help you count the shells? Can you use one counter for each shell?
- How might the ten frame help you to count the shells?

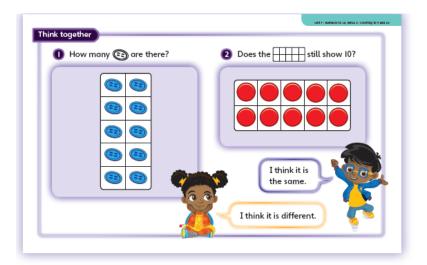


**DEEPEN** Ask children to represent the **Discover** picture themselves by counting the relevant number of items into the container. Can they count them back out again?



**DEEPEN** Draw children's attention to the numerals around the ten frame. Ask children if they can read them. Ask: *Can you represent each number using counters?* 

**GET ACTIVE** Use ten frames and counters to count the other objects in the **Discover** picture. How many precious stones or badges are there? Ask children to make each number on a ten frame, encouraging them to fill the top row first.



**STRENGTHEN** Count items out of a box by taking them out one at a time and placing them on ten frame. Fill the top row first followed by the bottom row.

**DEEPEN** Set up pictures of ten frames using the **Ten frame teaching tool** with the screen frozen so that you can just show it for a few seconds. Ask children to match the ten frame they see on screen by making it themselves. Ask: *How many counters are there altogether? Can you show the same amount in a different way on the ten frame?* 

## Tuesday

## Challenge

WAYS OF WORKING Whole class or pair work Provide children with ten frames and counters to support learning. Encourage children who are confident to record the amount in each picture using numerals.

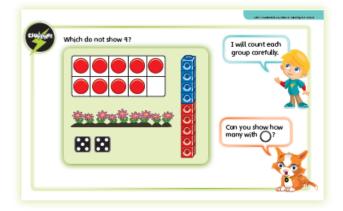
**IN FOCUS** Children will see different representations of 9 and 10, and will sort them into those that show 9 and those that show 10. Children make links between the representations and discuss what is the same and what is different about them.

#### ASK

- Which pictures show 9? Can you point to each item as you count? Can you make the pictures using real objects?
- Which picture shows the number 10?
- Do you need to count each object or can you see the number without counting?
- Which picture is the odd one out? Can you explain why it is the odd one out?

**STRENGTHEN** Model how to make the pictorial representations shown in the **Challenge**. Link each representation back to the ten frame and use it to check the number of items, for example, break up the cubes and place them on the ten frame to count how many, or model this using the **Ten frame teaching tool**.

**DEEPEN** Give children two large pieces of paper: one piece with the number 9 on it, one with the number 10 on it. Ask children to fill the paper with different representations of that number. They may use concrete and pictorial representations to make the number. Can any children write the numeral?



**GET ACTIVE** Label sets of two hoops with the numerals 9 and 10. Ask four pairs of children to make or draw the representations shown in the **Challenge** question and add them to the correct hoop. Ask two more children to show 9 and 10 in ten frames to add to the hoops. Ask the other children to collect groups of 9 or 10 items from around the classroom or outside area and put them in the relevant hoop.

### Wednesday

## Learning focus

Count up to 10 from a larger group

## **Practical activities**

#### WAYS OF WORKING Whole class

You will need digit cards 1–10 and action cards (photocopiable 10) for these activities.

IN FOCUS The focus of these activities is to encourage children to see that 9 and 10 can also be represented as an abstract amount. Children also count 9 or 10 from a larger amount. Encourage children to use containers to store the objects they count out and then to use a ten frame to double check they have counted correctly.

#### GET ACTIVE Card and action game

Use digit cards 1–10 and action cards showing star jumps, hopping, clapping and skipping.

Choose a digit card and an action card and ask children to do the action that many times.

## Reflect: Journal 2

WAYS OF WORKING Independent thinking Have buttons and paper clips available for children to use to represent the **Reflect** activity.

**N FOCUS** The focus of this activity is for children to count out 9 or 10 from a larger amount. Children consider different methods to help them count efficiently, including crossing out the items as they count, numbering the items as they count or putting counters on top of the items or on the ten frame. Children may need to use counters, lining them up to help them to count without missing any or counting any items more than once.

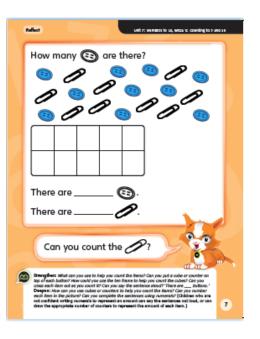
MASTERY CHECKPOINT Children who have mastered this concept can count to 10 using one-to-one correspondence. They can represent 9 and 10 on a ten frame. They are starting to recognise that they can count on using a ten frame understanding that a full row is 5. Children can count objects out from a larger group.

**Children who have not yet mastered this concept** can count objects in a straight line up to 10, touching each object as they count. They start to use the ten frame to support their counting but still need to count all the objects without making the link to counting on.

Children who have mastered this concept with greater depth can count to 10 efficiently and accurately. They are starting to subitise and can understand when they can count on to find the total without counting all the objects. Children can represent 9 and 10 in more than one way independently.

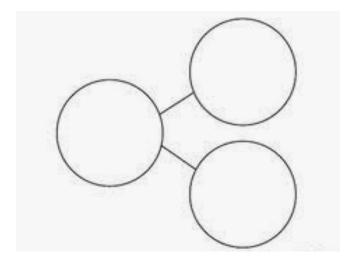
#### Counting out from a larger group

Show children a large box containing about 30–40 items. Explain that lots of the items you have collected this week have been mixed together and you need to count them back out. Use the digit cards to choose a number and then ask children to count that number out from the larger group. Give each child a container to count the objects into. Once you have counted the objects out of the larger container, label how many items are in the smaller containers.



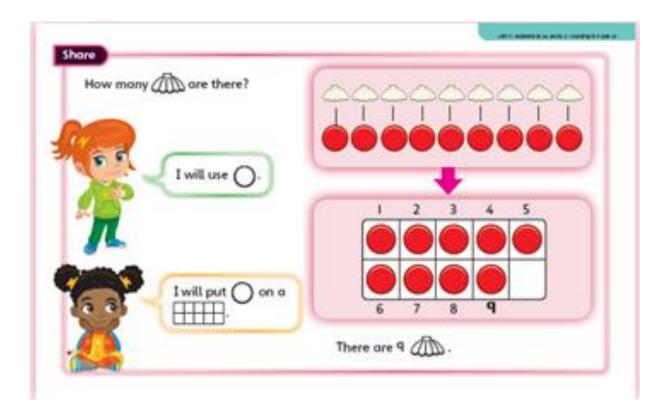
**Thursday** - Complete the woksheets where children trace and write the number 9 and count the items. Children then complete the activity where they circle all the different representations which show 9.

**Friday** - Children use objects and the part-whole model grids to see how many ways they can split the number 9 into two parts, ie. 8+1, 7+2, 6+3, 5+4.



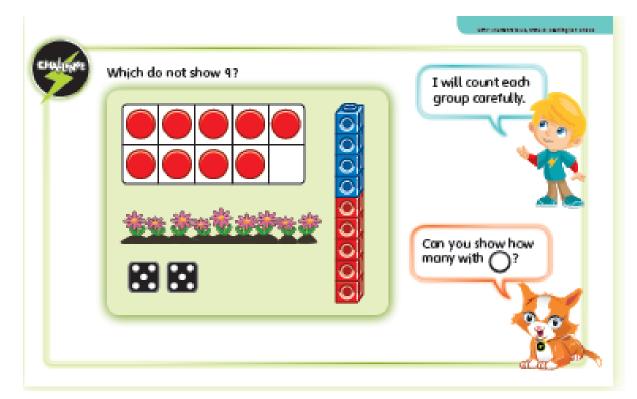
## Monday's screens





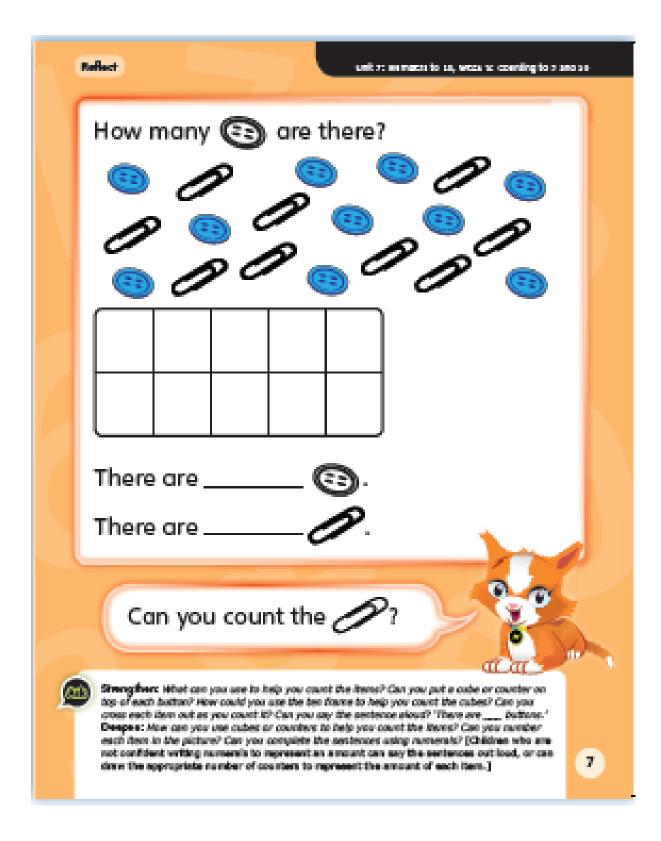
	where no we have a set of the process of the proces
Think together	
How many (2) are there?	2 Does the still show 10?
	I think it is different.

# Tuesday's screen



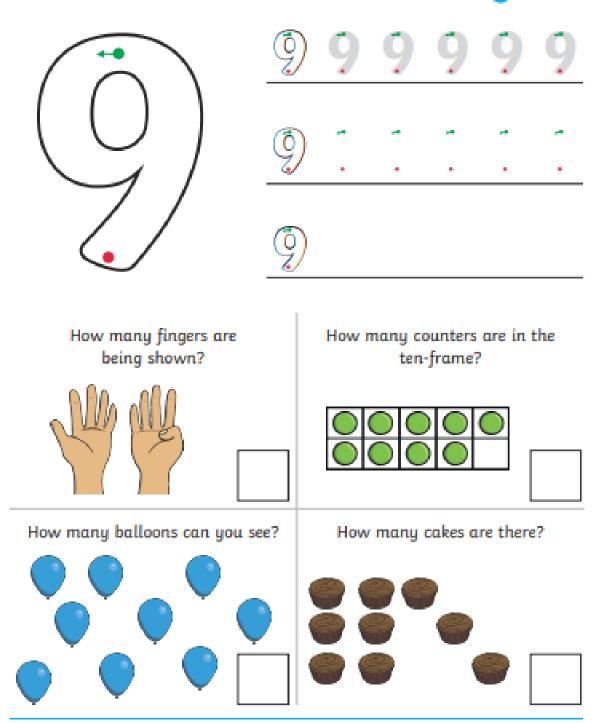
Wednesday's workbook page

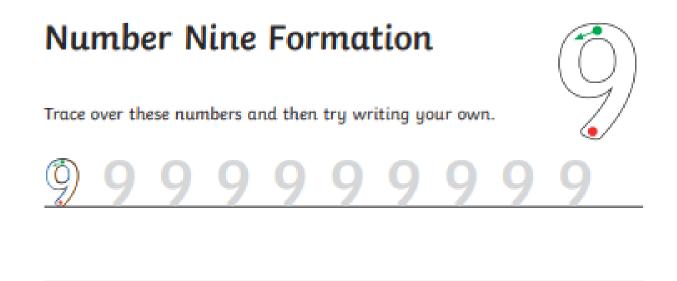
U	nk 7: Numbers to 10, Week 3: Counting to 9 and 10 Practice	
	Draw 9 flowers.	
	Show IO. I	
6	ELG 11: Mathematics: Numbers count reliably with numbers from 1 to 10 ELG 4: Physical development: Moving and handling handle equipment and tools effectively, including pencils for writing Strengthen: How can you make sure you draw exactly 9 flowers? Can you use counters to help you check the number? Can you touch each counter as you count? Can you say the numbers aloud as you count? Deepert: Can you write the number next to each counter? Which number tells you how many there are altogether? Can you show 9 and 10 in more than one way? Is your way different from your partner's? Could you show 9 or 10 in a five frame? Why not?	



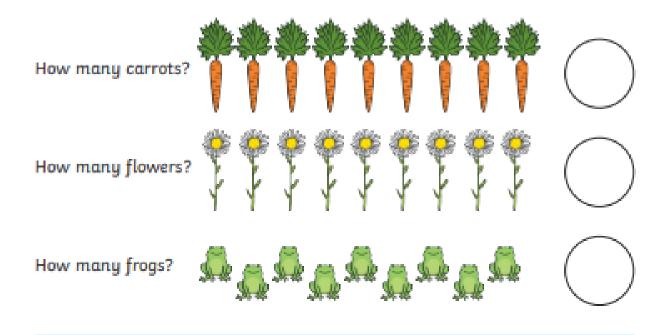
Thursday's worksheets

# All About Number 9 Number Formation Activity



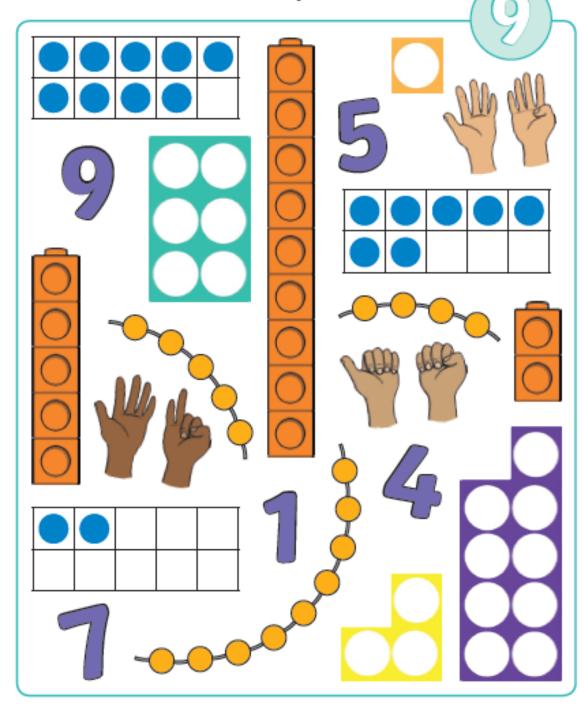


# Write the answers in the circles.

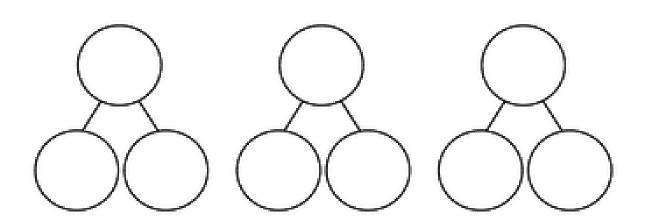


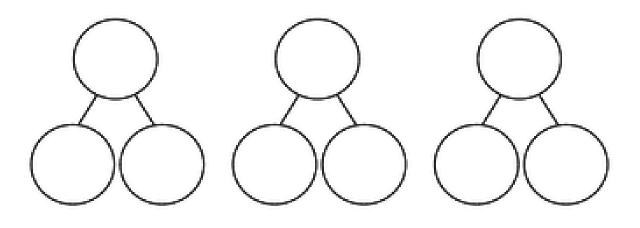
# I Spy Number Nine

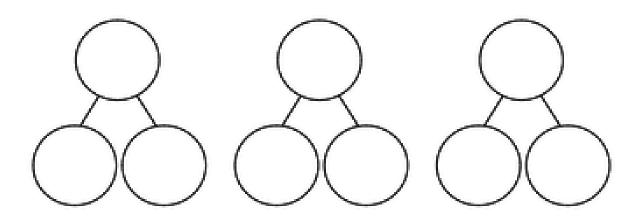
Find and circle all of the number nines.



# Part-Whole Models







O Primary Stars Education