

# Numicon Teaching Handbooks User Guide

What do you want to find out?

How to find  
activities

What's in an  
activity?

# How to find activities



**Search:** you can type any key words you are looking for into the search bar. You can also use the search box to look for specific activities – as you type, you will see suggestions appearing as a drop-down menu below the search box. Click on one of these to find that activity.

You can refine your search results using the drop-down menus (filters) or start with the filters.

A screenshot of the search interface. At the top is a search bar with a magnifying glass icon and the word "Search" inside. To the right of the search bar is a pink button with the word "Search" and a right-pointing arrow. Below the search bar are four filter menus: "Year groups", "Maths topic", "Curriculum", and "Numicon strand". Each filter menu has a downward-pointing arrow on its right side. Below the filter menus is a link that says "Clear filters" with a red underline.

**Filters:** there are 4 filters (drop-down menus) you can use to narrow down what you are looking for.

# How to use the filters

Click on any filter to open up the drop-down menu.

Select an item to see everything in that category. (You can see the number of activities in brackets.)

Numicon Handbooks cover Year 1/P2 to Year 6/P7.

Choose from the 4 UK nations, White Rose, PYP IB or Cambridge International.

Search

Year groups

Clear filters

Showing 1-12 of 304 resources

Name and descriptions

**1: Exploring the Numicon Shapes**  
Securing Foundations 1 - Getting Started - Learning to use Numicon Shapes, number rods, pattern and counting

**2: Cover the board with Numicon Shapes**  
Securing Foundations 1 - Getting Started - Learning to use Numicon Shapes, number rods, pattern and counting

Maths topic

- All Maths topic
- Adding (84)
- Communicating (103)
- Comparing (163)
- Counting (61)
- Equivalence (90)
- Fractions (5)
- Inverse (14)
- Length and distance (25)
- Pattern (156)
- Problem solving (33)
- Reasoning (6)
- Rotating (13)
- Sorting (119)
- Subtracting (81)
- Time (15)
- Translating (8)

Curriculum

- England, Scotland, Wales, Northern Ireland, White Rose, PYP, Cambridge International
- England, Scotland, Wales, Northern Ireland, White Rose, PYP, Cambridge International

Numicon strand

Securing Foundations

Play

These are the strands that run through the Numicon programme. You'll be familiar with these if you use the print handbooks.

Search results appear in a list – you can use the name and description to help you choose.

# What's in an activity?



On the following pages you will find a walkthrough of one activity. Activities are laid out with tabs so you can easily move between sections:

**Intro** Quick overview of what children will learn, items you'll need and words to use in conversation.

**Links** Resources to download including a starter image, assessment, practice and homework activities.

**Steps** Each lesson is broken down into small steps that you can follow along the tabs.

**Video** Short videos are provided to give you PD support where needed. You can play the video directly in the activity screen.

**+** This gives you ideas for extra practice activities.

# Intro tab

7: 'How many more?' with number rods

Intro Links 1 2 3 4 Video +

Quit act

Words and phrases to use in conversation with children during this activity.

## Learning opportunities:

- To learn how to find differences between small numbers without counting.
- To understand 'how many more?' as a way to find an answer to a subtracting problem.
- To solve difference problems in a data handling situation.

This details what children will have the opportunity to learn during the activity. This list helps you decide if the activity is right for your class.

## Terms for children to use:



greater than, less than, subtract, difference, the difference between, how many more?, how much more?, equals, pattern, similar, different, subtracting symbol

←

## Have ready:

- Numicon Number Rod 2–10 Trays
- Number rods

Items you will need to do this activity. You can always use the **IWB Software** to present manipulatives (see **Links** tab).

←

# Links tab

7: 'How many more?' with number rods

Quit activity

Intro **Links** 1 2 3 4 Video +

**Links:**

- Full activity group overview
- Starter image
- Whole-class practice
- Photocopy masters
- Implementation guide
- IWB Software
- MyMaths

**Next steps:**

- Explorer Progress Book 1c, pp. 6–7
- Explore More Copymaster 27: Busy Bees
- Numicon I Milestone Assessment cards (NPC 1:6e and NPC 1:6f)
- Numicon I Milestone Tracking chart

The **activity group overview** gives the context, assessment and lists the other activities in the activity group.


The **starter image** shows a picture of the real-life context or apparatus in use. You can display this for your class to set the scene.

Any **blue text** is a link to a resource you can view in your browser or download.

**Next steps** link to further practice and assessment using the Numicon Milestones

# Step tab

7: 'How many more?' with number rods

Quit activity 

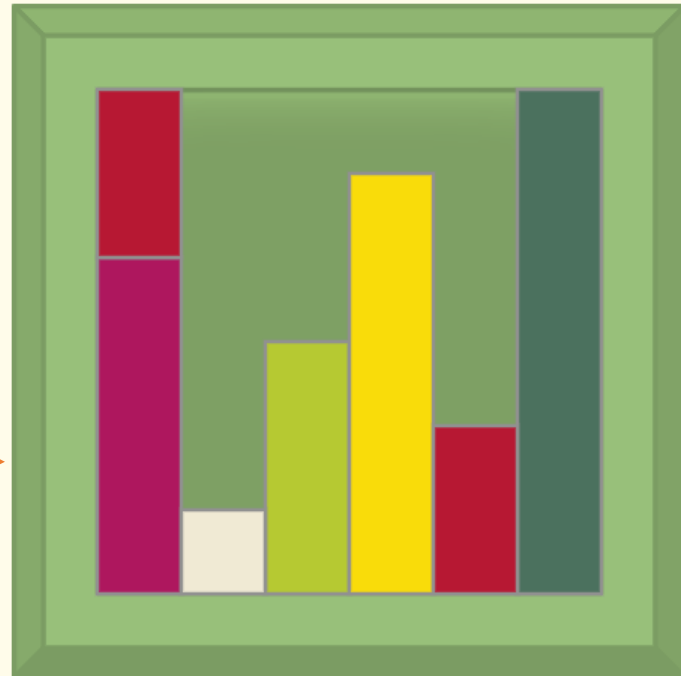
Intro Links 1 2 3 4 Video +

## Step 3

The activity is broken down into small steps that you can follow by moving through the tabs.

Discuss with children that, to do this, they had to find 'how many more?', e.g. in the 6-tray, for the 4-rod, the answer was 2 more (see [image](#)). Ask children to say the number sentence, e.g. '4 and 2 more equal 6.'

You can open a larger version of the number rod tray picture by clicking on the word [image](#).



# Video tab

Short videos are provided to give you PD support where needed.

7: 'How many more?' with number rods

Intro Links 1 2 3 4 Video +

Quit activity

This video shows you one way to use the IWB software for this activity.

Notes for Understanding 'how many more?' with number rods

You can access notes here to support your preparation. The notes have curriculum links and explain how to set up your IWB screen in advance.



# + tab

7: 'How many more?' with number rods

Quit activity

Intro Links 1 2 3 4 Video +

### Paired or small group work

Have ready: Numicon Number Rod 2–10 Trays, number rods

Partners find one of each of the number rods that will fit in their Number Rod Tray and place them in a row, in random order, across the Tray. They take turns to fill each gap, saying the number sentence each time.

Here you can find short activity ideas for **individuals, pairs or small groups**. Sometimes there will be more than one activity suggestion.

Remember that practice for the **whole class** is on the **Links** tab.

When you've finished reading, press this button to return to the Numicon Teaching Handbooks page.

# Activities in 2 parts

Some lessons have been split into two activities because they have lots of steps. On the last step of a **part 1** activity, you'll see a link to **part 2**. Click here and you'll go to a new page containing both parts of the lesson. Click on part 2 to continue reading the remaining steps, and see any + activities.

You will find any **Videos** and + activities at the end of **part 2**.

**4: Bridging multiples of 10 when subtracting - part 1**

Intro Links 1 2 3 4 5

**Step 5**

Use rods to explore different subtracting calculations, repeating steps 1–3, e.g.  $14 - 7$ ,  $24 - 8$ ,  $32 - 5$ . Ask children how they could use the rods to illustrate more complicated calculations involving 3-digit numbers, e.g.  $116 - 7$  or  $223 - 8$ . Encourage them to illustrate the ten and ones from each number with rods and then repeat steps 3 and 4.

[4: Bridging multiples of 10 when subtracting - part 2](#)

**4: Bridging multiples of 10 when subtracting - part 2** Quit activity

Intro Links 6 7 Video + +

**Learning opportunities:**

- [See all learning opportunities](#)

**Terms for children to use:**

subtracting, take away, difference, more, fewer, pattern, complete, leave, 'multiple of 10', 'completing to a multiple of 10', 'bridging a multiple of 10', equal to, balancing, regroup, rearrange, adjust, compensate

**Have ready:**

- Numicon Shapes
- number rods
- empty number lines

numicon

The Intro and Links tabs are repeated in **part 2** so you can easily find supporting resources for the lesson.

# Looking for the next activity

After closing an activity, you will return to your search results on the [Numicon Teaching Handbooks](#) page. You can select another activity from the list, change the filters or search again to look for more lessons.

Search

Search

Year groups

Maths topic

Curriculum

Numicon strand

Clear filters

Showing 1-12 of 304 resources

Name and descriptions

**1: Exploring the Numicon Shapes**

Securing Foundations 1 - Getting Started - Learning to use Numicon Shapes, number rods, pattern and counting

**2: Cover the board with Numicon Shapes**

Securing Foundations 1 - Getting Started - Learning to use Numicon Shapes, number rods, pattern and counting

Name and descriptions	Maths topic	Curriculum	Numicon strand	Resource file
<b>1: Exploring the Numicon Shapes</b> Securing Foundations 1 - Getting Started - Learning to use Numicon Shapes, number rods, pattern and counting	Adding (84)	England, Scotland, Wales, Northern Ireland, White Rose, PYP, Cambridge International	Securing Foundations	<a href="#">Play</a>
<b>2: Cover the board with Numicon Shapes</b> Securing Foundations 1 - Getting Started - Learning to use Numicon Shapes, number rods, pattern and counting	Adding (84)	England, Scotland, Wales, Northern Ireland, White Rose, PYP, Cambridge International	Securing Foundations	<a href="#">Play</a>