

Curriculum objectives

- To identify and represent numbers using objects and pictorial representations.

Success criteria

- I can count on in ones to add.

You will need**General resources**

'Number cards 0–20' (0–9 cards)

Equipment

Interlocking cubes; individual whiteboards

Differentiation**Less confident learners**

At this stage the children can use the cubes only to model the additions and write the answer in a number sentence.

More confident learners

Encourage the children to work mentally only, by counting on from the larger number.

Lesson 4**Oral and mental starter****Main teaching activities**

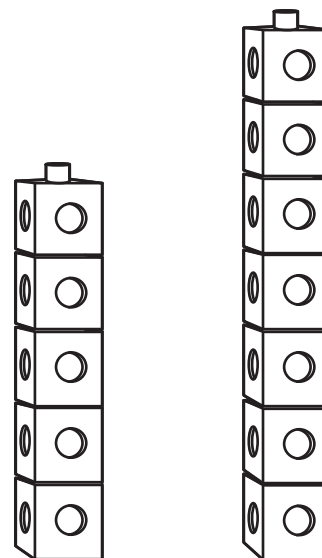
Whole-class work: Ask a child to count out seven cubes and to make a tower with them. Ask another child to count out five cubes and make a tower. Invite the children to stand and hold out their towers so that everyone can see them. Ask: *Which tower has more cubes? How do you know that? Which tower has fewer cubes? How did you work that out?*

Now ask all the children to make their own tower using up to ten cubes. Ask them to compare their tower with a partner. Say, for example: *Which tower has more? How can you tell? And which tower has fewer? Who has the same number of cubes as their partner? How do you know that?*

Paired work: Ask the children to work in pairs and to each take a handful of cubes. This time they count their cubes. Ask them to compare how many they have and to decide who has more and who has fewer. They repeat this another five times.

Progress check: Invite two children to come to the front of the class and to make a different tower with the cubes. Ask them to put their tower by their partner's tower. Ask all the children, for example:

- *Who has more cubes in their tower?*
- *Who has fewer?*
- *How do you know that?*

**Review**

Make a tower of seven cubes. Ask the children to count as you make the tower. Now ask the children to make their own tower that has more cubes than yours. Say, for example: *How many cubes do you have? Is that more or fewer than my tower? How do you know that?*

Repeat this for the children to make a tower with fewer than seven cubes and ask the same questions.

Now add another cube to your tower and ask the children to count how many cubes there are with you. Invite them to each make a tower that has the same number of cubes as yours. Repeat all of this, using different quantities of cubes for the tower, up to ten cubes. Ask:

- *How many cubes did you use?*
- *Is that more... fewer than my tower?*
- *How do you know that?*
- *How many cubes do you need to use to make a tower with the same number as my tower?*