

Round the clock

Week 1 - Activity 1

Focus of activity: Using place value to add and subtract.

Working together: conceptual understanding

- Make 555 from place value cards. Shuffle the set of cards (see child instructions). Show one to the group, e.g. + 40. *We're going to add 40. Which card will change?* Agree that the 50 card will change. *50 add 40 is 90.* Ask a child to replace the 50 card with the 90 card.
- Make 555 again, and show another card, e.g. – 200. *Which card will change this time?*
- Repeat, e.g. 555 – 3.
- Carry on playing, but now write 555 on the flipchart instead of using place value cards. Which digit will change, the 100s, 10s or 1s digit? Write the addition/subtraction, e.g. $555 - 20 = 535$.
- Write 555 on the flipchart. Secretly choose a card but don't show the children. Write the answer. Can children work out what was written on your card? Show the card to confirm.
- Write 555 again, and this time ask a pair to choose a card without showing the rest of the group. They add or subtract accordingly and write the answer. Can the rest of the group guess which card they chose?
- Repeat with another pair.

Up for a challenge?

Write $555 + 102$ on the flipchart. *This time, two digits will change! Which digits will change?* Repeat with $555 - 23$ and $555 - 240$.

Now it's the children's turn:

- Children follow instructions round a clock face to add and subtract multiples of 1, 10 and 100. They should end up at the number they started at! If so, well done. If not, they try and work out where they have made a mistake.
- Go round the group and check that they know which digit will change each time. If not, encourage them to make the 3-digit number with place value cards and change the cards as they go round the clock.

S-t-r-e-t-c-h:

If children cope well, challenge them to make up their own round the clock face.

Things to remember

Remember that we can use place value and number facts to add and subtract. We know which digit will change, and by how much. Play the guess the card game again as in **Working together** above.

Have children improved?

You may want to add something that has emerged from the activity. This may refer to misconceptions or mistakes made.

Resources	Outcomes
<ul style="list-style-type: none">• 100s, 10s and 1s place value cards• Add and subtract cards (see child instructions)	<ol style="list-style-type: none">1. Children can use place value to add and subtract to/from 3-digit numbers (changing one digit).2. Children begin to identify what needs to be added/subtracted to make a given number.