

Maps and directions

Strand

Understanding shape

Learning objective

Use the eight compass points to describe direction

Type of starter

Rehearse

Whiteboard tools

- Press the 'new' button to generate a map with some paths blocked by roadworks, and three objects to collect.
- Drag and drop the direction cards to prepare the route. Select one 'direction' card and one 'movement' card each time. NOTE: the order of these cards makes a difference to turning first or moving first.
- Press 'move' to confirm the selection and move the recycling lorry along the route.
- Press the 'show route' button to display the directions selected so far.
- View the box at the top of the screen to identify which items the lorry has collected along the route.

What to do

This activity develops children's use of all eight compass points. From a given starting point ask the children for directions to guide the lorry to the recycling centre using the direction cards on the screen as prompts. Drag and drop each card into place to build up the route. More than one route is available and the routes include barriers and objects to collect, so the quickest route is not necessarily the best. At any time during the activity, you can press the 'show route' button to check the lorry's progress. Encourage the children to check and challenge the route at this stage and start again if necessary. Press 'move' when the route is confirmed. The lorry will then make its way round the screen - hopefully always finishing at the recycling centre to deposit its contents! Make sure at all times children use the correct mathematical vocabulary when selecting an instruction from the screen.

Differentiation

Less confident: give the children copies of the photocopyable 'Maps and directions' sheet on page 46 as additional support.

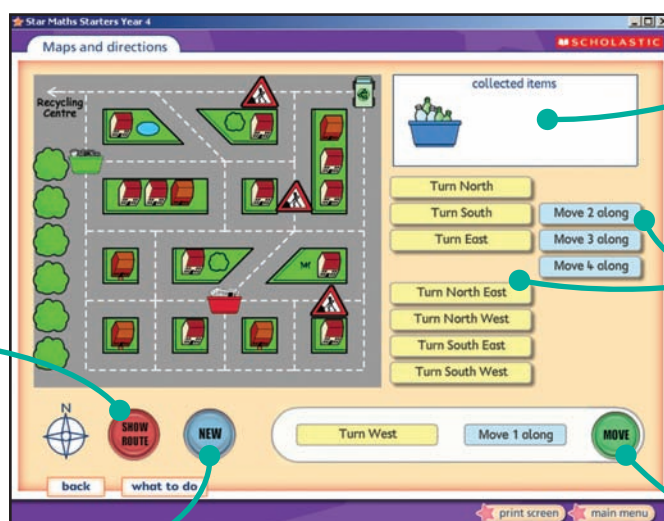
More confident: ask children for alternative ways of giving the same directions (for example, rotating through 90° clockwise).

Key questions

- *What is the most direct way to move from this point to that?*
- *Are there any alternative ways of moving from this point to that?*

'show route'
Press to see directions selected so far

'new'
Press to generate a new map



'collected items'
View collected objects here

direction cards
Drag one direction and one movement card to box below

'move'
Press to confirm selection and move lorry