

Learning Intention: *How can you use the 8 points of the compass to navigate around a grid?*

- I can use a compass to find north.
- I can follow directions given using 8 compass points.
- I can give and follow directions using 8 compass points.

EQUIPMENT:

- Compass point reminder (Resource 1)
- Cones
- Number label cards (Resource 2)
- Compasses
- Laminated cards and white board markers (Resource 3)
- Clip board

WARM UP: Compass

Recap with the children what the 8 compass points are (**Resource 1**).

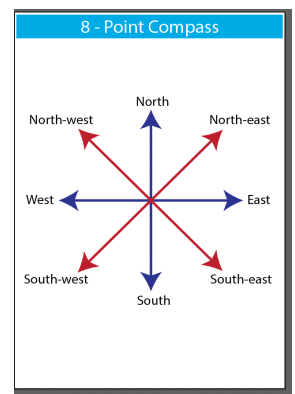
Children to start in the middle of the hall or playground facing north.

The teacher to call out a compass point and a way to move eg **“skip north-east.”**

Children should move to the point the teacher calls out using the method of travel given.

The teacher should continue giving directions and instructions for how to move.

Make it easier: Children to return to the middle before each direction/instruction.



ACTIVITY 1: 8 Compass points

Children in pairs to have a compass.

Introduce a compass and show them how to use it to find North.

Ask children to use their compass to find North, this could be completed in pairs.

Teacher to call out different compass directions, children to turn and face the relevant compass point.

Teacher could include clockwise or anti-clockwise in their instructions.

Make it easier: Children to return to face North after each instruction.



ACTIVITY 2: 8 Compass points (optional activity - Maths link)

1. Ask children to face North.
2. Give children different turns - 90° , 270° clockwise/anti-clockwise etc.
3. Ask children which compass direction they are facing.
4. **Children in pairs to set the 8 points of a compass** - this will be used for activity 3.
Have a middle as a starting point (distance of cones will depend on your area)

Q& A: What do you need to think of when setting this up? If you find North first this will help with setting your compass points.

ACTIVITY 3: Navigate with compass points

Children to work in pairs/fours using the grids set up in Activity 2. Each grid to have a set of numbers (**resource card 2**)

Teacher should place a copy of these numbers beside each grid.

In their pairs, Player A to take the numbers 1 to 4 from the stack and place them underneath 4 different cones.

Player B starts in the middle with their eyes closed. Player A will then navigate their partner around the grid to each number 1 to 4 (in the correct order) using the compass for directions.

Children should then swap roles.

Note: Teachers may wish to set up more than one grid so that pupils have more space to move around.

Make it harder: Start from any point



Start in the middle

ACTIVITY 4: Challenge

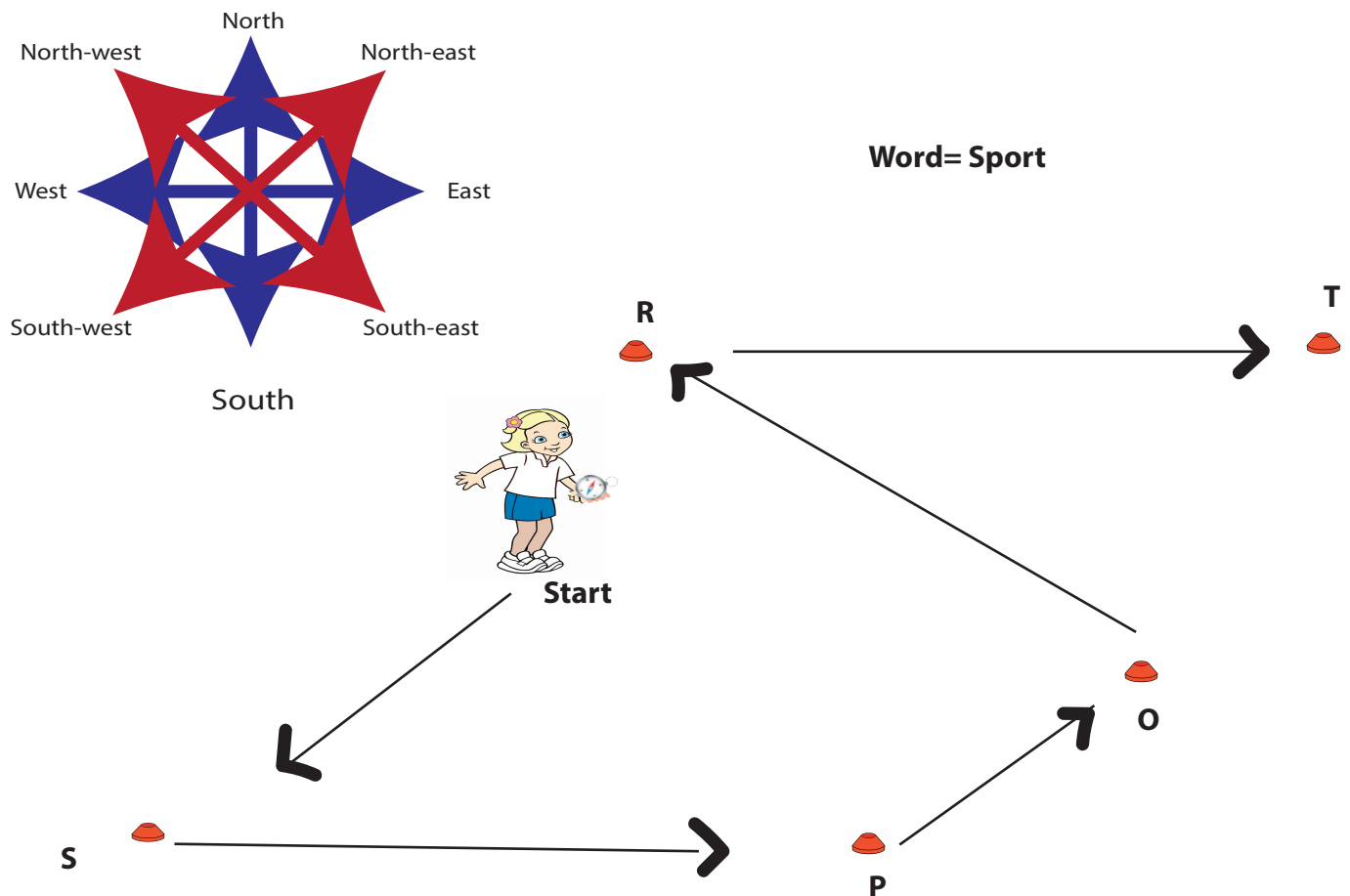
Children to use Cards/laminated cards and white board markers (**resource card 3**).

In pairs create a challenge for another team, set out the cones where you would like them...

1. Make a word up no more than 8 letters and place them underneath the cones
2. Have a starting point
3. Write down the directions e.g. South West 5 steps (letter S), East 6 steps (letter P) etc...
4. Now pair up with another group
5. Give the other group the directions on a sheet of paper
6. Can they work out what the word is?

Make it harder: Mix the order of the words up and they will need to work out the answer!

Swap around groups to navigate different challenges



PLENARY

Plenary: What challenges did you face in this lesson? How did you overcome them?
What is important when trying to navigate?