

# COACH – Numeracy and Maths – Second Level



## Compass Points

**Es & Os:** Through practical activities, which include the use of technology, I have developed my understanding of the link between compass points and angles and can describe, follow and record directions, routes and journeys using appropriate vocabulary. **MTH 2-17c**

**LI:** To recognise the link between compass points and angles

To follow and create a journey using appropriate vocabulary

**SC:** I can identify the 8 compass points (North, South, East, West, North West, North East, South West, South East)

I can recognise the sizes of the angles between the 8 compass points (90 degrees and 45 degrees)

I can follow instructions using a simple map or set of instructions and compass

I can create a journey using a simple map or set of instructions and compass

## **JMA: Explore**

**Resources:** Whiteboards, pens, compasses, chalk maps of your town if available

### Introduction

Introduce activity – we are going to be using compasses and maps today.

What do we use compasses and maps for? Talk about experiences that pupils have with the equipment.

Give pupils maps of their town and see if they can locate anything on it – their house, the school etc. Alternatively, use Google Maps and Street View to explore.

Give out chalk and compasses – work in pairs on individually

### Development

Using an outdoor space, talk about the compass – describe all the different parts, ask pupils if they can find north and walk around the grounds – which way are we walking? Walk around the playground and check to see if they know which way we are going.

#### Activity 1 - [MNU 2-17a – discovering compass points](#)

Support pupils to find north again on their compasses. Write down the four compass points – North, South, East and West on the ground in chalk. Can they recognise any of the angles here? Write this in – 90 degrees

Following this, they should fill in the other compass points – North West, North East, South West and South East. Can they recognise any of the angle here? – 45 degrees

Can they work out any of the other angle sizes ie from which point to which point is 180 degrees? Which is 270 degrees? Etc.

Support children to work out which direction things they know are in – is it north to their house? Which direction in the park in? Write these on the ground in chalk

**Resources: compass, chalk**

Activity 2 - [MNU 2-17a – discovering compass points](#)

Using whiteboards or paper if available, pupils are now going to imagine that they are birds and that they are drawing a birds eye view of the school playground, marking in the compass directions. Do an art gallery check of the maps when they are completed.

**Resources: compass, whiteboard, whiteboard pens OR paper and pencils**

Activity 3: [MNU 2-17a – linking compass points to angles to create and follow journeys – pair work](#)

Practice following a journey, perhaps write one out prior to the lesson. For example:

Start at the playground door, face north, walk ten steps, face south, walk fifteen steps, where are you now etc.

Encourage children to practice this with their partners and then to create a journey to share with another group. Can they draw their journey on their map?

**Resources: compass, whiteboard, whiteboard pens or pencil and paper, maps that pupils made**

### **Plenary**

Pupils write down three things that they learned in the lesson today.