



Grid Orienteering

The aim of this exercise is to teach the participants how to follow directions and orientate their way around a course with a map. The course is set out in a grid format using coloured exercise cones. If you don't have cones please print out resource on bottom of this document. This can be set up inside in a classroom or sports hall or outdoors in wide open space like a play yard or sports pitch. The larger the space the better.

Resources:

- 3 blue cones, 3 yellow cones, 3 green cones and 3 white cones.
- Cone maps from below. For a class of 30 you will need
 - A copy of map 1 for each pair
 - 3 copies of maps 2-6

Preparation

- Set out the 12 cones in a grid as given on the map. Leave a space of 2 metres between each cone.
- Put children into pairs.

The Session

1. Practice map

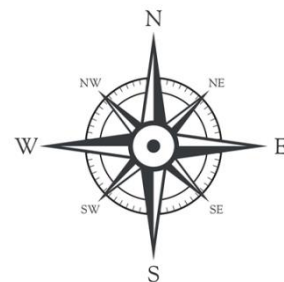
- Give each pair a copy of map 1.
- Discuss map orientation and ask each pair to set the map to the cones on the ground.
- Ask each pair to go to the start cone (red triangle on map).
- Discuss - is everyone in the correct place?
- Select one pair to lead the class to the next cone, discuss location and if correct continue until the class reach the finish cone at the double red circle.

2. Pair work

- Give each pair one map numbered between 2 and 6.
- Each pair starts at the cone marked on their map, they navigate to each control until the finish.
- You check they have finished on the correct cone.
- Swap maps and repeat.

Use the grid to teach subjects. i.e Geography or Maths

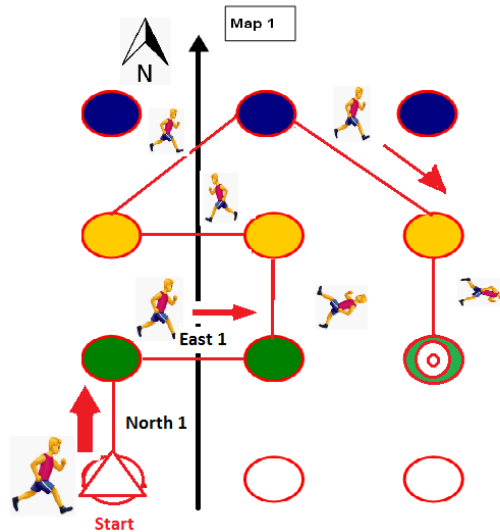
Use the compass diagram to explain about directions and map orientation. The blue cones are north on the grid. The directional arrow will always point to north on the map





Use the compass to navigate your way around the grid. If working in pairs, have one participant stand out to the side of the grid calling out the directions, i.e

- Start at the triangle,
- Move north 1 place
- Move east 1 place
- Move north 1 place
- Move west 1 place
- Move northeast 1 place
- Move southeast 1 place
- Move south 1 place to finish
- Finish at double circle



Extension Activities

Assessment

Put codes on each cone. Give each pair a pencil and paper; they record the code of each cone they visit along the route.

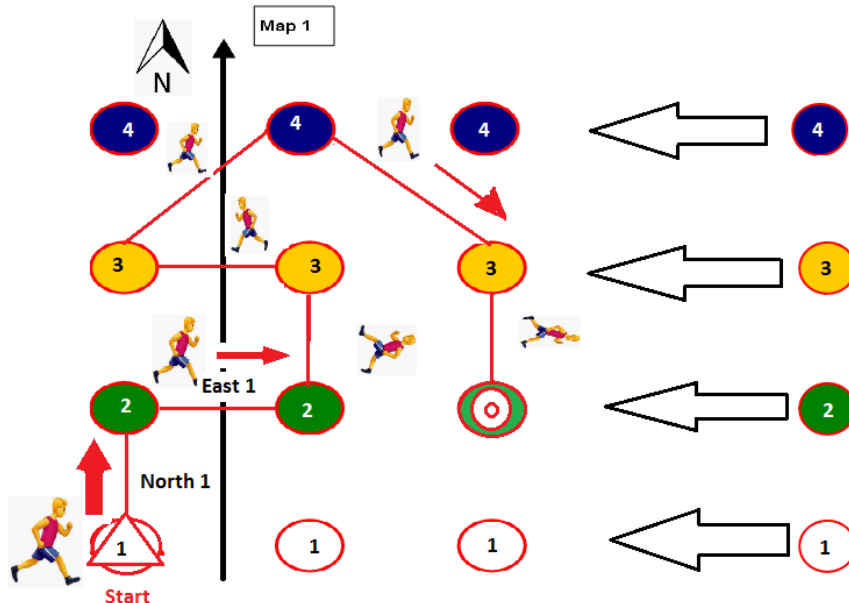
Black and White maps

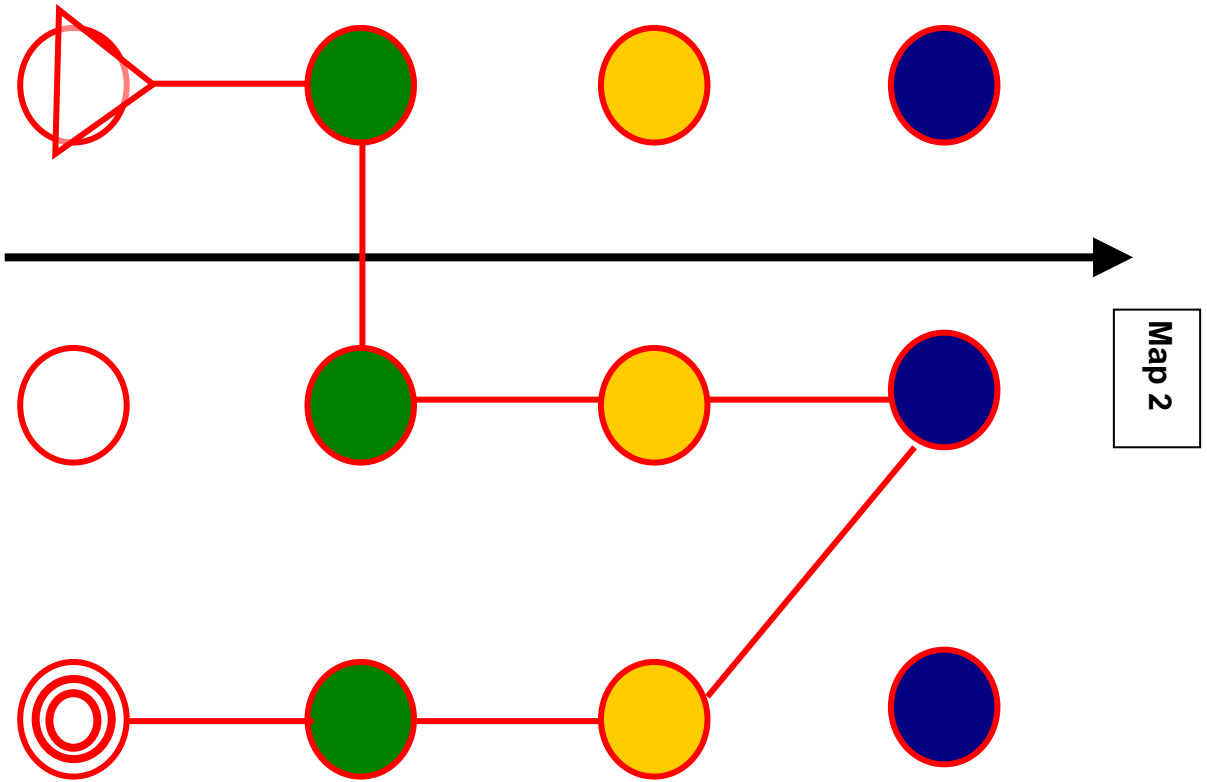
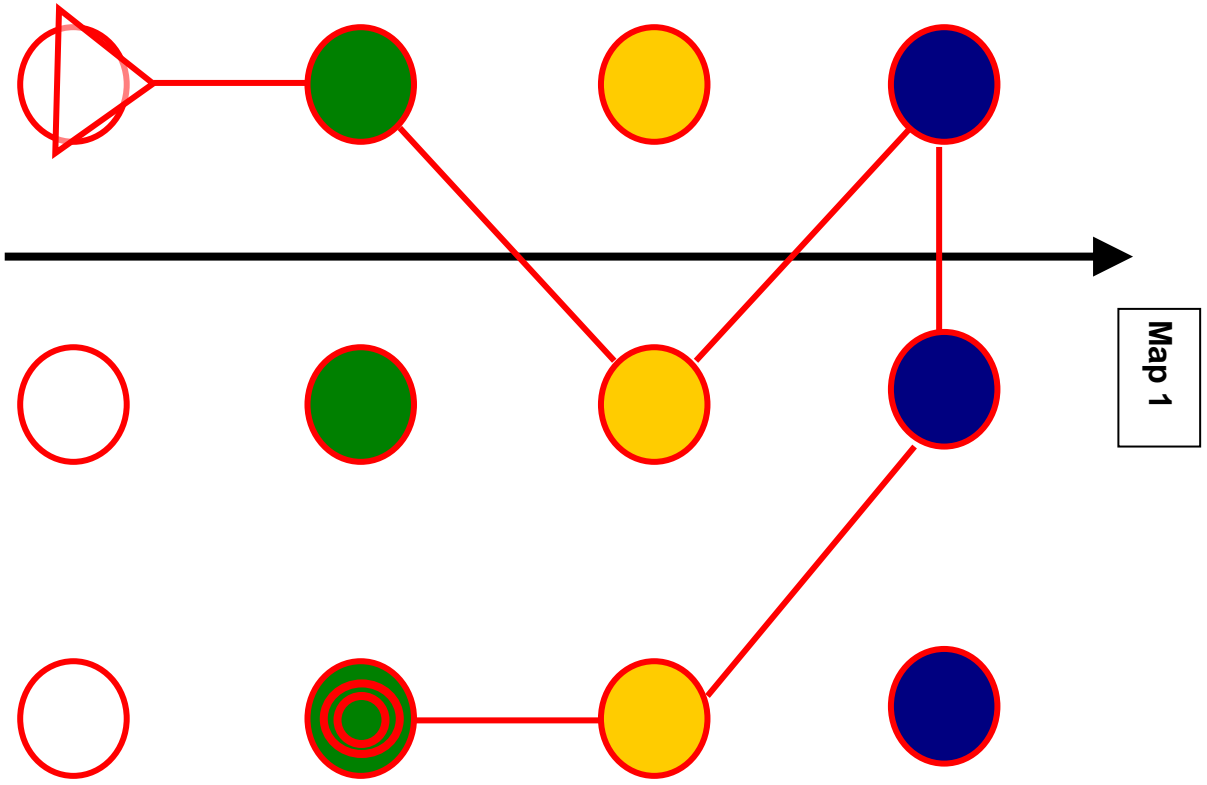
See example map at the end of this document. Make more maps with different courses. Set out a grid of 12 cones of any colour and run session as for colour coded cones.

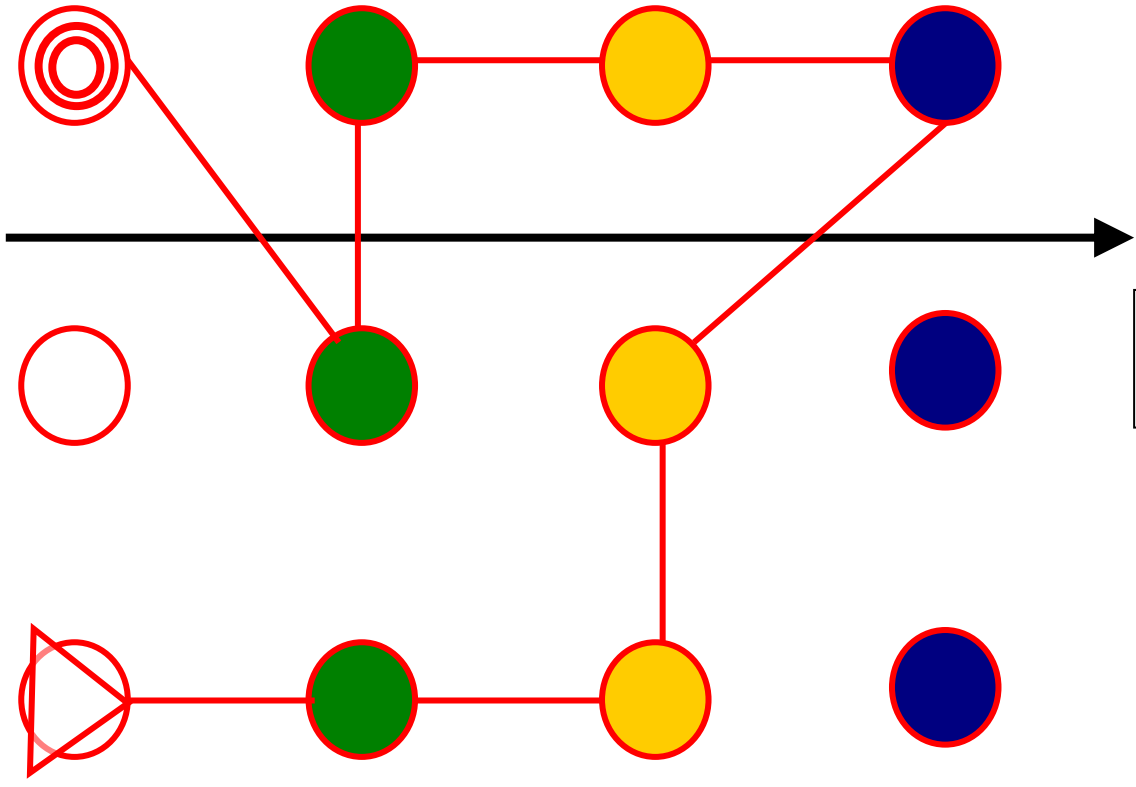
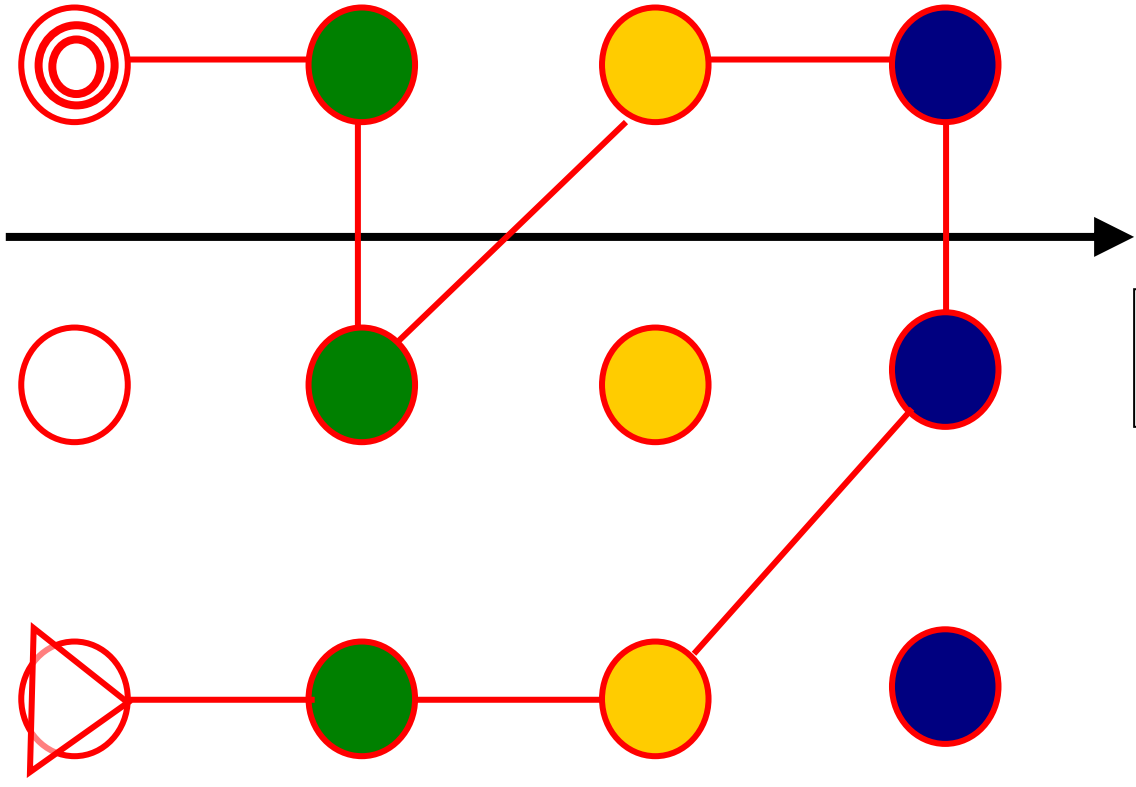
Each line has its own number associated with it. White cones = 1 / Green cones = 2 / Yellow cone = 3 / Blue cones = 4.

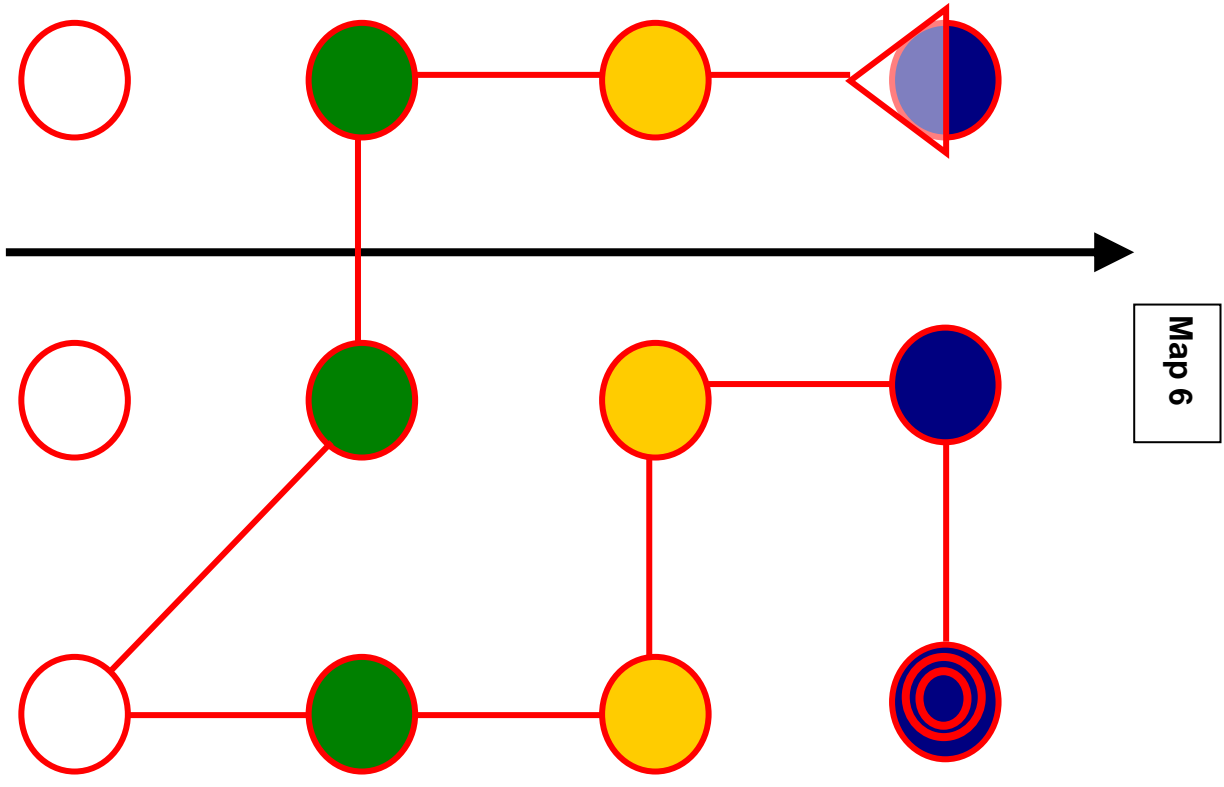
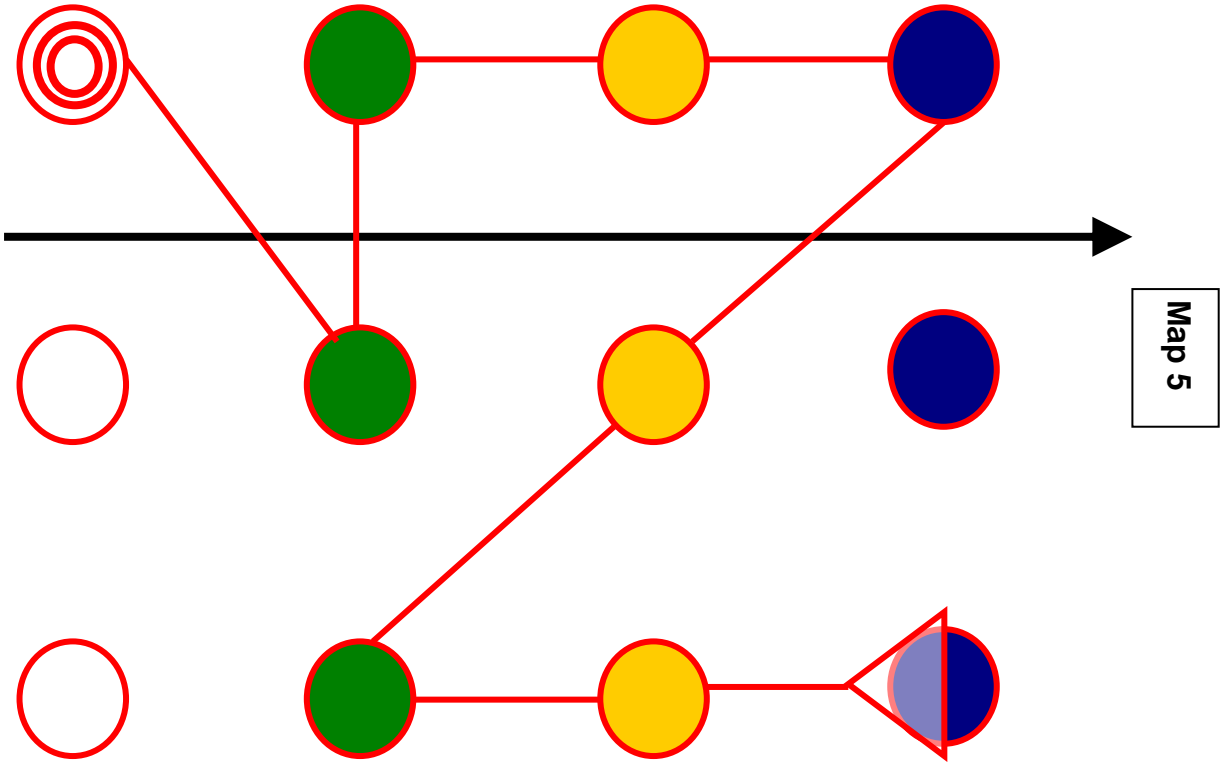
Sample exercise:

- Add up all the cones: $1+2+2+3+3+4+3+2=$ _____











9 Cardinal Cones Map Courses

Resources:

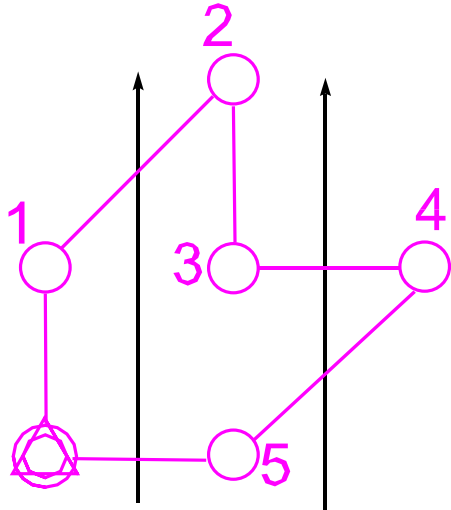
- 9 markers – e.g. cones, upside down plant pots, cards pegged into the grass, each one with a north arrow and a code letter
- Large north arrow placed at the appropriate end/side of the area to be used
- Make a few (4 or 5) copies of the course maps, cut up the maps and laminate each course map.
- Sets of Cardinal Cones maps; each different course map in separate bags or boxes which are clearly labelled with the course number
- Slips of paper and pencils
- Answer sheet

Preparation:

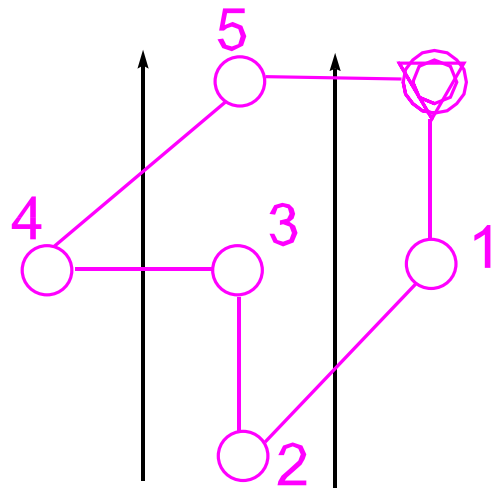
- Put out the markers in three rows of three as shown on the diagram bottom right, taking care to put the correct code in the right place according to a pre-determined plan
- Prepare an answer sheet for each course map
- For a class it may be preferable to have 2 or more sets of grids in the area so as to avoid congestion

The session

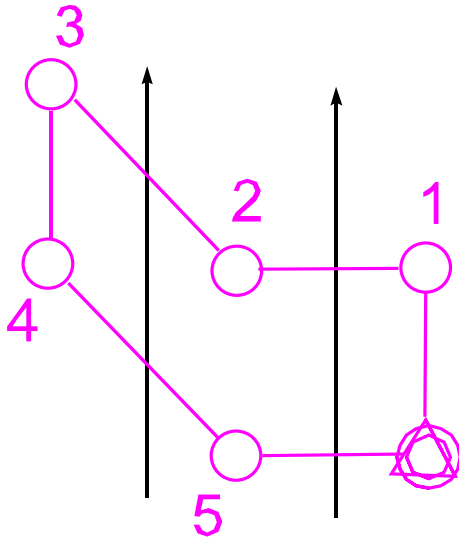
- A warm-up activity which revises the compass directions is a good idea e.g. all jog round and when the whistle is blown call out a direction (North, south, north east etc) and they all run to that side or corner of the area
- The children should be in pairs
- Explain that:
 - the map does not show all nine cones but just the ones needed on the course
 - the triangle on the map represents the start and the information on each map tells them which marker on the grid is the start place for that course
 - each course finish point is marked on the map with a double circle and is the same as the start point
- The children should keep that map orientated so that the north lines on the map always point to the northern edge of the area (as indicated by the large north sign or arrow)
- In each pair one child is responsible for navigating whilst the other notes the code letter at each marker which is visited on the course, including the start and finish place
- Pairs come and check their answers and if correct they take a different map.
- Swap the navigating and answer-writing roles each time
- Continue in this way until the time is up or everyone has completed all the maps.



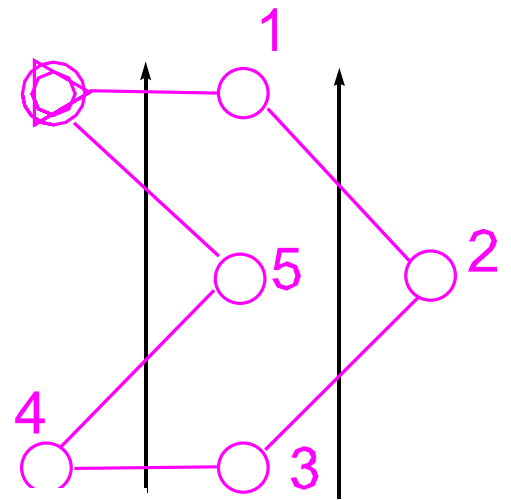
Course 1 (S.W.corner)



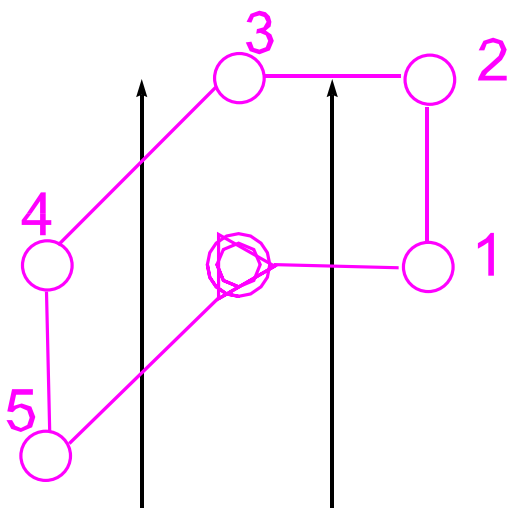
Course 2 (N.E.corner)



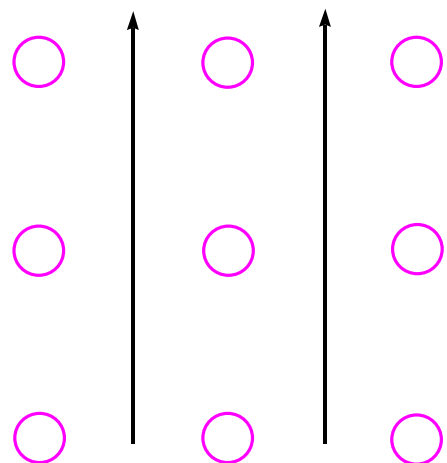
Course 3 (S.E corner)



Course 4 (N.W.corner)



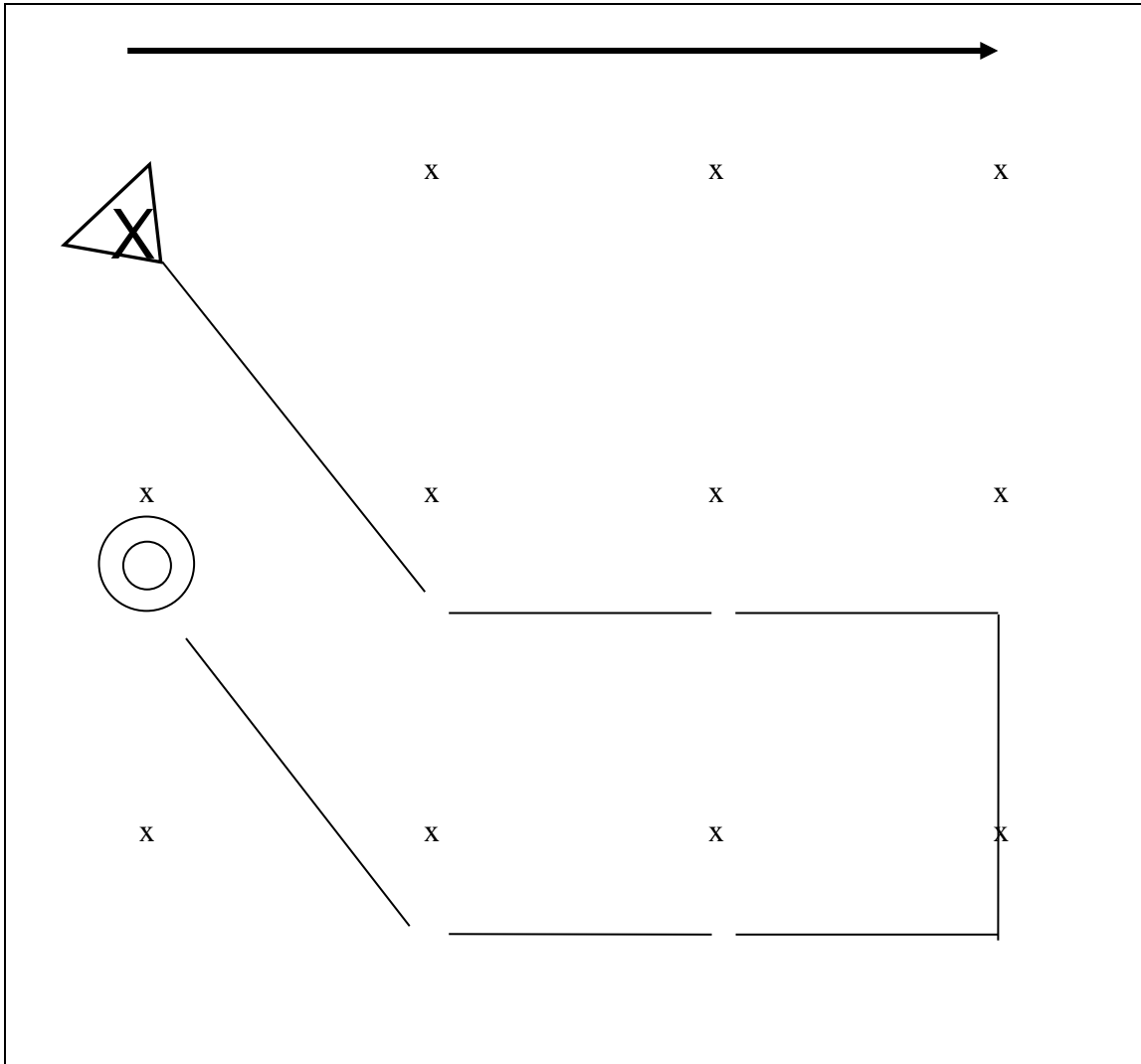
Course 5 (Central point)



Cone layout, set to North



Example: Black and white map for extension activity for 12 cones





Printabel resoures:

Print 3 copies of each cone , to add wieght glue to carboard

