

Obstacle Course

Using spatial language and reasoning



Children often enjoy moving around obstacle courses, especially if these involve a variety of movements like balancing, jumping and crawling.

Adults could model a commentary using directional language, such as going around, under, over and through, encouraging children to describe their movements and to devise their own courses.

The Activity

Set up a simple course, with for instance, planks to balance along, hoops to jump in, tunnels to crawl through and tables to go over or under.

Encouraging mathematical thinking and reasoning:

Describing

Tell me what you're doing.

I am going up, I am going over, I am going down, I am going under, I am going through...

Reasoning

Perhaps we could go across something or between some things?

What about a slalom course of cones – how far apart do they need to be?

Suppose we do the course backwards, what would come first, then?

Opening Out

Can you make your own obstacle course? What might you use - there are hoops,

cones, large blocks and planks? Can you make some stairs? What about a circuit?

Can you make a course to get from here to there without touching the ground?

Recording

Could you draw a plan or map for your obstacle course? What about adding some arrows to show people which way to go?

The Mathematical Journey

Shape, space and position:

directional language e.g. over, under, along, across, around, between, forwards, backwards, and later left and right

visualising and making routes connecting points in different ways

drawing plans of a course (representing 3D spatial relationships in 2D); beginning to use symbols e.g. arrows

Number:

counting hoops or cones as children jump in or go around each one

Measures:

comparing distances e.g. putting hoops or stepping stones nearer or further apart

measuring how far apart to put slalom cones

Development and Variation

Children can:

make obstacle courses with different specifications e.g. not touching the ground, connecting different points, making a circuit
use stepping stones to make pathways
visit mazes and help to design and make their own.



Resources

Crates, tyres, planks, blocks, hoops, cones, tunnels, tables, chalk (e.g. for adding annotations on the playground), large boxes...

Download a PDF of this resource.

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