

## Welcome - transcript

Hello, welcome to jackpot maths. This is an introductory course about using manipulatives to teach maths. You may or may not have already taken one of our other courses, but it doesn't matter whether you have, or you haven't because this is a standalone course in itself. You will be able to come away with many more ideas of things to use with your pupils to enhance the way you can teach them, enabling them to grasp concepts quicker, easier and more effectively.

Using manipulatives to teach is a proven way of helping children be able to access maths in a way that they can't when they are just supplied with concepts in an abstract way. It will help all children but particularly those that struggle. Teaching using manipulatives in this practical and visual way particularly helps children who have either poor working memory and find it hard to hold information in their heads while they manipulate the numbers or poor processing speeds or poor auditory processing. All 3 of those things go hand in hand with being neurodiverse. Particularly if you are dyslexic or have dyscalculia. Which is the specific learning difficulty to do with maths.

If you've got a problem with one of those three issues, working in the abstract, where you can't see things and have to hold things in your working memory, is really, really difficult.

So as soon as we bring in manipulatives where they can see and touch, and even if it's that, they aren't actually touching them because they're not using real-life manipulatives. They're using virtual manipulatives; they still get the same benefits by using them virtually as you do in real life.

So, this course is split into three main sections. One is where I look at basic maths, the very easy building blocks of maths and how we can use manipulatives to help with that. Then move on to slightly harder things the mid-range techniques. These are more sort of the children who are probably age of 7 to 11 and then the final section is techniques for more advanced learners looking at high school maths, to do with algebra.

Suppose you are somebody who teaches mainly younger children. In that case, you'll probably just want to focus on the first two sections full of topics.

But if you are mainly a high school tutor, you will probably want to have a look through these 2 sections that can be used if your children can't do what they need to do for

their age. If they're not able to work at an age-appropriate level, you may need to dip down into these methods that are usually just done with younger children. But you're obviously going to need to use the other high school maths methods as well.

Or if you are like me and teach all ages and abilities all 3 sections will be handy!

Welcome to this course, and I hope you find it really useful.