

Connecting Knowledge - Lesson Study

02.12.2014	2AF, Rosendale Primary School	Maths Investigation - I am learning to work systematically.
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Impact Focus - The difference I want to make is to improve the children's confidence and fluency with number and their ability to apply previous learning, so that they choose strategies and complete tasks in a way that makes mathematical sense.

Lesson Part	Content	Resources
Starter - 10 mins	<p><u>Money Bingo (Skill of adding coins accurately.)</u></p> <ul style="list-style-type: none"> Children write values 1p - 10p on boards with partner. Classworks together to find coin totals from pictures on IWB and tick them off their boards when they're done. Model counting coins accurately - checking value of coin, putting largest coin first, grouping same value coins together. 	Whiteboard and pen per partners
Teaching - 20 mins	<ul style="list-style-type: none"> Now we've learnt some tips for counting coins quickly and accurately, lets play a game of snap. Show 'snap' if the coins shown add up to the same amount! Show x if coins are not the same value. So, apart from for 1p, there is always more than one way of making an amount using coins. We might need to use just a few coins or lots of coins. Look at this work from another class. What do you think the children were asked to do? Timed Pair Share. Which one do you think shows systematic working out? Timed Pair Share. We are going to make a checklist for working systematically. Rally Robin what makes chosen example systematic. (Record on static whiteboard.) Introduce idea of paying 5p for a carrier bag. Sometimes I might have a 5p coin in my purse, but other days I might not. I want to know all the different ways I could pay the 5p for the bag. Ask chdn for suggestions of how you can make 5 p - As/Bs share. These are great ideas but we might have missed some! We need to find a way of working systematically! Let's keep a record of what we do and use the systematic checklist to make sure we are working systematically. 	
Activity - 25 mins	<ul style="list-style-type: none"> Children are going to work systematically with partners to find all the different ways of paying 5p. Use Sage and Scribe to suggest and record different solutions. Send chdn off and ask bananas to take out the simplest way of making 5p (5p coin). Apples record this on the sheet if they agree or coach if they don't. Then bananas hold the pencil and record/coach while apples say what to do etc. 	Coins 1p -10p in pot. Recording sheet and pencil per partners.

	Challenge - what if I needed 3 bags. How much would that cost? How many ways of paying are there now?	
Plenary - 5mins	How do you know you've found all the possible solutions? Were there more solutions when I needed 3 bags? What's the benefit of working systematically?	

Observation Focus	Focus Children
<ul style="list-style-type: none"> • Can the children work systematically and organise their work clearly? • Can the children work cooperatively in pairs and discuss their answers/coach as necessary? 	Sergio Isabelle Maisie Antuan