**Homes**

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| Objective | Area and Perimeter | Area, Perimeter, Volume – problem Solving | Money, decimals & sizePercentages | Proportion |
| Settling Activity10 mins | Display picture of a garden… What maths can you see in a garden?? | Display picture of a house… What maths can you see in a house? | Display picture of some furniture… What maths can you see in furniture | What maths can you see in the kitchen |
| Starter15 mins | How much fencing do I need for my garden? What measurements do I need? What do we call the distance around the edge? Look at different gardens(?) and calculate fence length | Look at pictures of rooms and talk about how to calculate wall area and how many paint is required – look at paint quantity in DIY shopExt: Wall paper – how much per roll & how many rolls required. | Look through catalogues and choose furniture you’d like in a room – ie. Enough to fill a bedroomFind cost | Discuss ratio and proportion in making recipes |
| Main 120 mins | Now I’ve got the fence sorted I need to get some lawn. How do I calculate this? Area – what unit will it be measured in? Calculate using scale drawings of gardens (convert measure to imperial for extension) | Design room and create scale drawing of room – look at Ikea room plannerUse paint colour books & DIY books to calculate cost of redecorating room  | Look at designing a room: Ikea room plannerFind volume of furniture and calculate percentage of room used for furniture | Spaghetti recipe for four – calculate quantity needed for 10 people. Calculate cost of ingredients needed from Tesco & Asda |
| Main 215 mins | Look at famous people house & garden – estimate and calculate fence needed and lawn needed.Extend: How much paint is needed to cover the fence?Paint – Back of canteen??! | If first room complete: Choose second room of different theme for someone else. ie: brother or sister’s roomExt: carpet for room – amount/ cost – look at carpets online for cost | Heating – what’s the cost to heat an average sized house? Calculate volume of house.Which electricity company is best to use – find on internet.Best buy | Compare costs and find best value- which supermarket. Extension: If they could buy some ingredients from different shops – what is the cheapest |
| Plenary15 mins | Design a garden if you have 40 metres of fence and 150m² of lawn | Using an average paint cost: If I have £50 how many rooms, size 5m by 4m, can I paint? | If sales are on at Ikea at 30%, and Argos 25% etc off – how much does your furniture now cost? | If you have £100 how many people can you feed with this recipe? |