

Lesson Plan		
Objectives and Targets	Activities	Assessment
<p>Learning Objectives: To design a toy for the future.</p> <p>Children will learn about future technologies and use these ideas to design a toy for the future.</p> <p>D&T Attainment Target: 1a,b, 3a, 4a,c,d, 5a</p> <p>Pupils will generate & develop ideas, thinking about who will use them, what they will be used for & clearly explain their ideas. They will reflect on ways of improving their ideas & think about the materials they will use.</p> <p>Science Attainment Target: SC1 1a,b 2b</p> <p>Pupils will be taught that science is about thinking creatively & the importance of communicating their ideas. They will consider what sources of info they will use.</p>	<p>Introduction: Introduce myself and a brief outline of the lesson. Introduces myself as a scientist & show children how to listen to muscle sounds by placing their thumbs against their ears.</p> <p>Ethical Cards on IWB: Hand out red, yellow & green cards to all the children. Show the pictures on the IWB and discuss their content. Ask the children to hold up a colour card depending on how they feel about the subject. Red for revolting, Yellow for not sure, and Green for ok. Have a brief discussion on their thoughts on the issues raised. (After 1st picture on In-vitro meat, I will show his Milk Making Machine)</p> <p>My Favourite Toy: Hand out sheets of paper. Ask the children to draw their favourite toy. It could also be a pet or a hobby that they enjoy doing. They must write down why they like that toy/pet/hobby; why they enjoy doing it; do they do it with else. (15 mins)</p> <p>Future Design Ideas: Show a range of pictures on IWB. Inform the children that these are ideas that may happen in the future. Some may be possible, some could be done now and some may not be possible at all. Have a brief discussion about them. Introduce the idea of Nanotechnology & Biotechnology in the designs.</p> <p>Design A Future Toy: In small groups of 2 or 3, the children must design a toy for the future. They must draw the toy & describe what it will do. Adults to go round each group and discuss their ideas with them, help them to develop their ideas further and ensure they write as much as they can about their designs. (30 mins)</p> <p>Plenary: Thank the children for their help. Inform them that some of their designs may be made up but all of their designs will be put into a book and placed on display at the RCA Summer show in June & details will be sent to them later.</p>	<p>Adults to go round the room ensuring the children understand the task. Provide support to those who need initial encouragement and those who need help developing their ideas further. Ensure that the children get as much information down as possible about their ideas. In this lesson, the ideas will be more important than spelling/punctuation.</p>
		<p>Resources</p> <ul style="list-style-type: none"> • Ethical Cards - IWB • Future Design Ideas – IWB • (load files beforehand on PC) • red/green/yellow cards • milk-making machine • (red dye, milk, cup) • white coat • paper