

Radical Curiosity: In the Orbit of Buckminster Fuller Exhibition Curriculum Links (Preschool)

ArtScience at School Segment	Section introduction	Curriculum links
<b><u>Design Revolution</u></b>	Buckminster Fuller sought to change the world through a “design revolution” that would result in the radical and systemic transformation of our understanding of the planet and how it worked.	<p><b>Aesthetics and Artistic Expression</b></p> <p>Learning Goal 1: Enjoy art, music and movement activities</p> <p>Learning Goal 2: Express ideas and feelings through art, music and movement</p> <p>Learning Goal 3: Create art and music and movement using experimentation and imagination</p> <p>Strategies:</p> <ul style="list-style-type: none"> <li>• Using themes</li> <li>• Using stimuli</li> <li>• Using art masterpieces</li> <li>• Providing a variety of art materials</li> </ul> <p><b>Discovery of the world</b></p> <p>Learning Goal 1: Show an interest in the world they live in</p> <p>Learning Goal 2: Find out why things happen and how things work through simple investigations</p> <p>Learning Goal 3: Develop a positive attitude towards the world around them</p> <p>Strategies:</p> <ul style="list-style-type: none"> <li>• Asking questions</li> <li>• Providing opportunities for simple experiments</li> </ul>
<b><u>Geodesic</u></b>	Geodesic dome was a product of Bucky’s obsessive study of the rules of geometry. A geodesic structure is also the greatest area that can be covered with the least amount of material and can support itself without the need for foundations. It represents the culmination of the idea that more can be achieved with less.	
<b><u>Tensegrity</u></b>	Synergy is the behaviour of complete systems, which cannot be predicted from the behaviour of any of their separate parts on their own. “Tensegrity”, a portmanteau of “tension” and “integrity”, consists of the suspension of rigid elements in space solely through continuous tension and discontinuous compression.	
<b><u>Shelter</u></b>	Buckminster Fuller envisioned that the house of the future would be self-sufficient in terms of energy to be free of supply networks and to free occupants from the slavery of domestic drudgery thanks to new automation technologies.	

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<p><b><u>Information</u></b></p>	<p>Fuller felt that the source of many of our world’s problems lies in our inability to detect patterns of activity in society. He proposed that if we knew enough to understand how the world’s resources are distributed, it would be much easier to determine a reasonable solution for everybody.</p> <p>Various decades before technology made it possible, Fuller foresaw the contemporary discourse offered by Big Data and the visualisation of information, and by the logic of gamification, which uses the mechanics of games to tackle complex problems.</p>	<ul style="list-style-type: none"> <li>• Conducting field trips</li> <li>• Using diagrams and graphic organisers</li> <li>• Using print media, technology and interactive media</li> <li>• Modelling a sense of wonder and care for the environment</li> </ul> <p><b>Motor Skills Development</b></p> <p>Learning Goal 3: Demonstrate control and coordination in fine motor tasks</p>
<p><b><u>Make your life and experiment</u></b></p>	<p>There are many exaggerated stories associated with the Bucky myth and yet this myth was an instrument through which he constructed an image of a visionary entrepreneur in order to transmit a powerful idea: without the need to be anything special, we can all do exceptional things.</p>	<p><b>Numeracy</b></p> <p>Learning Goal 1: Recognise and use simple relationships and patterns</p> <p>Learning Goal 3: Recognise and use basic shapes and simple spatial concepts in daily experiences</p> <p>Strategies:</p> <ul style="list-style-type: none"> <li>• Providing opportunities for children to solve problems</li> <li>• Using stories, songs and rhymes</li> </ul>