## Moving Monsters : DT : Year 3



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To investigate a variety of familiar objects that use air to make them work.	Children will think of objects that use air to make them work, then examine, sketch, label and/or describe a variety of these kinds of objects.	<ul> <li>Can children recognise familiar objects that use air to make them work?</li> <li>Can children describe how the objects use air to make them work?</li> <li>Can children suggest alternative uses for these familiar objects?</li> </ul>	<ul> <li>Slides</li> <li>Worksheet 1A/1B/1C</li> <li>Range of objects that use air (FSD? activity only)</li> </ul>
Lesson 2	To investigate techniques for making simple pneumatic systems.	Children will learn about simple pneumatic systems. They are then challenged to make a variety of simple pneumatic systems according to given instructions using basic equipment.	<ul> <li>Can children explain how simple pneumatic systems work using appropriate vocabulary?</li> <li>Can children create simple pneumatics systems?</li> <li>Can children suggest ways of using these pneumatic systems in moving monsters?</li> </ul>	<ul> <li>Slides</li> <li>Syringes, tubing, balloons, plastic bottles, straws, etc.</li> <li>Challenge Cards A/B</li> <li>Worksheet 2A</li> </ul>
Lesson 3	To be able to gather ideas for creating moving monsters.	Children will begin to develop ideas about the use of pneumatic systems in a moving monster toy/ model. They may then either attempt more complex challenges where they will build pneumatic systems according to given instructions, or design pneumatic systems for a given toy design.	<ul> <li>Can children investigate ways of using pneumatic systems with other materials to control movement?</li> <li>Do children know of different techniques for joining and fixing components?</li> <li>Can children make effective pneumatic systems?</li> </ul>	<ul> <li>Slides</li> <li>Syringes, plastic bottles, tubing, card, straws, burger boxes, masking tape, etc.</li> <li>Challenge Sheet</li> <li>Worksheet 3A</li> <li>Monster Cards (FSD? activity only)</li> <li>Worksheet 3B (FSD? activity only)</li> </ul>
Lesson 4	To be able to design a monster including a moving pneumatic system.	Children will continue to develop their ideas about the use of pneumatic systems in a moving monster toy/model. They will then finish drawing, annotating and describing their own designs.	<ul> <li>Can children use their knowledge of pneumatic systems to design a moving monster part?</li> <li>Can children describe what materials and components they will need to create their monster?</li> <li>Can children identify areas that could be improved upon in their design?</li> </ul>	<ul> <li>Slides</li> <li>Worksheet 4A/4B</li> <li>A3 paper (FSD? activity only)</li> </ul>
Lesson 5	To be able to make a monster with a moving pneumatic part.	Referring to their designs from the previous lesson, children will create their moving monster toys/ models.	<ul> <li>Can children create a monster based on a design?</li> <li>Can children construct an effective pneumatic system to control movement?</li> <li>Can children work safely and effectively with a range of tools and techniques?</li> </ul>	<ul> <li>Slides</li> <li>Designs from lesson 4</li> <li>Syringes, plastic bottles, balloons, tubing, straws, card, masking tape, scissors, craft knives, etc.</li> </ul>
Lesson 6	To be able to evaluate a finished product.	Children will demonstrate their finished moving monster toys/models, then evaluate both their process and their finished product, either individually or with a partner.	<ul> <li>Can children identify successful areas of their finished products?</li> <li>Can children identify areas that could be improved upon?</li> <li>Can children describe what they would do differently if they were to make their moving monster again?</li> </ul>	<ul> <li>Slides</li> <li>Finished moving monsters</li> <li>Worksheet 6A/6B</li> <li>Worksheet 6C (FSD? activity only)</li> </ul>

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