

Learning Intentions	Learning Experiences
<p>To engage in guided discussions about how a push or pull affects how an object moves or changes shape</p> <p><i>A push or a pull affects how an object moves or changes shape (ACSU033)</i></p>	<p>http://splash.abc.net.au/res/i/L1120/index.html</p> <p>Discuss as a class the difference between push and pull</p> <ul style="list-style-type: none"> - What is something that needs to be pushed? - What is something that needs to be pulled? <p>Does the speed of the push/pull affect the outcome?</p>
<p>To explore with pushing and pulling different objects</p> <p><i>A push or a pull affects how an object moves or changes shape (ACSU033)</i></p>	<p>Work in teams to explore how toys move</p> <p>Share questions about how toys move or change shape</p> <p>Use arrows to show pushes and pulls</p> <p>Create a list of push and pull words to develop a word wall</p>
<p>To explore the difference with force when water is involved</p> <p><i>Science involves asking questions about, and describing changes in, objects and events (ACSHE034)</i></p>	<p>Explore the difference the push of water on floating objects has</p> <p>Discuss and reflect on experiences with water</p> <p>Push air-filled objects (balls) under water to experience the push of water</p> <p>Feel the difference between a heavy object suspended in air and then in water</p> <p>Create a labelled force-arrow diagram to indicate push or pull forces</p> <p>Work in teams to investigate objects that sink or float in water</p> <p>Investigate how to change an object that sinks into one that floats</p>
<p>To represent and explain their understanding of 'force' and 'gravity'</p> <p><i>Respond to and pose questions, and make predictions about familiar objects and events (ACSI5038)</i></p>	<p>Reflect on their observations and experiences of pushes and pulls</p> <p>Discuss the term 'force' and 'gravity'</p> <p>Represent push and pull forces using force-arrow diagrams</p>
<p>To plan and conduct an investigation of the factors that affect a paper helicopter's fall through air</p> <p><i>Through discussion, compare observations with predictions (ACSI5214)</i></p>	<p>Work in teams to investigate what factors affect the fall of a paper helicopter</p> <p>Identify things (variables) to change and keep the same in an investigation</p> <p>Record and discuss observations</p> <p>Show on a diagram where pushes and pulls act on a falling paper helicopter</p>
<p>Explore the big question 'what is the force was with you?'</p> <p><i>Participate in different types of guided investigations to explore and answer questions, such as manipulating materials, testing ideas, and accessing information sources (ACSI5038)</i></p>	<p>Discuss in teams this concept</p> <p>What does it mean for you in your world?</p>