



## ISE GRADE 2 SCIENCE CURRICULUM STANDARDS / LEARNING OUTCOMES



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p><b><u>Topic Two: Balance and Motion</u></b></p> <p>Balance</p> <ul style="list-style-type: none"><li>• Observe balanced objects.</li><li>• Observe stable balanced systems.</li><li>• Compare balanced systems and representations of balanced systems.</li><li>• Organize material to make various balanced systems.</li><li>• Communicate observations of balance and stability, using precise vocabulary.</li></ul> <p>Spinners</p> <ul style="list-style-type: none"><li>• Observe several expressions of rotational motion.</li><li>• Compare the actions of several different top designs.</li><li>• Observe rotation of a system falling through air.</li><li>• Organize materials to make systems that exhibit rotational motion.</li><li>• Communicate observations and comparisons of rotational motion, using precise vocabulary.</li></ul>	<ul style="list-style-type: none"><li>• Discover numerous ways to balance tagboard (two dimensional) shapes.</li><li>• Find ways to balance a pencil on its point, in stable positions.</li><li>• Explore the concept of balance, counterbalance, counterweight, and stability by balancing tagboard shapes, making mobiles, and engaging in other balancing projects.</li><li>• Communicate observations and comparisons of balanced objects, using precise vocabulary.</li></ul> <ul style="list-style-type: none"><li>• Construct toys that demonstrate spinning.</li><li>• Discover different ways to produce rotational motion.</li><li>• Explore variables that influence the spinning of tops, zoomers, and twirlers.</li></ul>	<ul style="list-style-type: none"><li>• Full Option System Science (FOSS) Teacher's Guide.</li><li>• Library Books (see list)</li><li>• Videos (see list)</li><li>• Internet</li></ul>



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<p>Rollers</p> <ul style="list-style-type: none"><li>• Observe several expressions of linear motion.</li><li>• Observe several kinds of objects and systems that roll.</li><li>• Compare the paths followed by rolling systems with different-sized wheels.</li><li>• Organize materials to make systems that roll in different ways.</li></ul>	<ul style="list-style-type: none"><li>• Roll objects down slopes.</li><li>• Observe and compare rolling systems with different-sized wheels.</li><li>• Observe rolling systems with weight attached to the wheels.</li><li>• Discover that marbles roll from high places to low places.</li><li>• Set up runways to get marbles to perform tricks.</li><li>• Communicate observations and comparisons of rolling motion, using precise vocabulary.</li></ul>	
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