



ISE KINDERGARTEN SCIENCE CURRICULUM STANDARDS / LEARNING OUTCOMES



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p><u>Topic One: Trees</u></p> <p>Fall Trees: Concepts</p> <ul style="list-style-type: none">• Trees have identifiable structures• Trees are a resource• Trees are growing, living organisms• Trees have basic needs, including water, light, and nutrients from soil• Trees are identifiable by their shapes <p>Leaves: Concepts</p> <ul style="list-style-type: none">• Leaves have identifiable structures• Leaf shapes can be compared to geometric shapes• Leaves can be identified by their shapes• Leaves have many properties that can be compared <p>Trees through the Seasons: Concepts</p> <ul style="list-style-type: none">• Trees have identifiable structures that serve different functions• Trees change through the seasons• Trees are resources. They provide people with wood and food	<ul style="list-style-type: none">• Observe trees in the schoolyard• Identify parts of a tree• Compare trees for similarities and differences• Help plant and care for a tree• Develop language associated with trees <ul style="list-style-type: none">• Observe the size, shape, texture and colors of tree leaves• Compare the shapes of leaves to common geometric shapes• Compare the sizes and edges of leaves• Communicate the similarities and differences they observe <ul style="list-style-type: none">• Observe seasonal changes in the life of schoolyard trees• Observe the structures of twigs, flowers, fruits, seeds and bark of trees• Compare changes in parts of trees through the seasons• Communicate observations and comparisons of schoolyard trees	<ul style="list-style-type: none">• FOSS kits: Trees• Library books: (see list)



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<p data-bbox="176 342 436 378"><u>Topic Two: Fabric</u></p> <p data-bbox="176 410 533 446">Fabric All Around: Concepts</p> <ul data-bbox="233 446 743 914" style="list-style-type: none">• Fabrics have observable properties• Fabrics are made from different materials• Fabrics can be compared and sorted by their properties• Fabric is used for many things in our everyday lives• Many fabrics are made by weaving threads together• Sewing is a process that weaves thread through more than one piece of fabric to join them• Scientists communicate problems, designs, and solutions <p data-bbox="176 946 533 982">Fabric Interactions: Concepts</p> <ul data-bbox="233 982 743 1346" style="list-style-type: none">• Some fabrics absorb water, and others repel it• Fabrics can be compared by their properties• Some fabric stains can be cleaned by washing• Cleaning fabric with soap and a scrub brush is better than using water only• Fabric can be permanently dyed a wide variety of colors• Different properties of fabrics make	<ul data-bbox="863 446 1325 1346" style="list-style-type: none">• Observe properties of several different fabrics• Observe how fabric is put together and how it can be taken apart• Communicate observations and comparisons of different kinds of fabric• Compare the properties of different fabrics • Compare the properties of fabrics to determine their best uses• Observe how water is absorbed at different rates by different kinds of fabric• Compare evaporation of water in an open and closed container• Observe the transformation of dirty cloth to lean cloth• Communicate observations and comparisons of interactions	<ul data-bbox="1402 446 1730 511" style="list-style-type: none">• FOSS kits: Fabric• Library books: (see list)



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<p><u>Topic Two: Fabric Cont'd</u></p> <ul style="list-style-type: none">• them useful for different purposes• Scientists communicate problems, designs, and solutions	<ul style="list-style-type: none">• Compare the permanence of a variety of stains	
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