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Kindergarten STEM Unit

STEM Area	Name of Lesson:	Iowa/Common Core Concept or Skill	Where to Find It @TeachersGoingGreen.com
Science	<u>Plant & Animal Habitat Slide Show</u>	<ul style="list-style-type: none"> • K-ESS3-1 Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live. 	<u>Kindergarten Science</u>
	<u>Critter Building</u>	<ul style="list-style-type: none"> • K-ESS3-1 Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live. 	<u>Kindergarten Science</u>
	<u>Composting with Worms</u>	<ul style="list-style-type: none"> • K-LS1-1 Use observations to describe patterns of what plants and animals (including humans) need to survive. 	<u>Kindergarten Science</u>
	Patterns: Fractals, Weather, & Nature	<ul style="list-style-type: none"> • K-ESS2-1 Use and share observations of local weather conditions to describe patterns over time. 	<u>Kindergarten Science</u>



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Technology	<u>Patterns & Fractals in Nature & Weather</u>	<ul style="list-style-type: none"> • K-ESS2-1 Use and share observations of local weather conditions to describe patterns over time. 	<u>Kindergarten Science</u>
	<u>Presenting a PowerPoint Show</u>	<ul style="list-style-type: none"> • 21.K-2.ES.1 Work appropriately and productively with others. 	<u>Kindergarten 21st Century Skills</u>
	<u>Cricket Thermometer</u>	<ul style="list-style-type: none"> • K.CC.B.4 Understand the relationship between numbers and quantities; connect counting to cardinality. <ul style="list-style-type: none"> ○ When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object. 	<u>Kindergarten Mathematics</u>
	<u>Plant & Animal Habitat Slide Show</u>	<ul style="list-style-type: none"> • K-ESS3-1 Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live. 	<u>Kindergarten Science</u>
Engineering	<u>Composting with Worms</u>	<ul style="list-style-type: none"> • K-LS1-1 Use observations to describe patterns of what plants and animals (including humans) need to survive. <i>Science & Engineering Practices, Analyzing and Interpreting Data</i> • Analyzing data in K–2 builds on prior experiences and progresses to collecting, recording, and sharing observations. • Use observations (firsthand or from media) to describe patterns in the natural world in order to answer scientific questions. (K-LS1-1) 	<u>Kindergarten Science</u>
	<u>Papermaking</u>	<ul style="list-style-type: none"> • K.MD.A.1 Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object. • K.MD.A.2 Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference. <p>* Adjust measurement activity to meet these Kdg standards rather than 1st grade by describing & comparing scrap paper & the measurements.</p>	<u>*First Grade Mathematics</u>
	<u>Critter Building</u>	<ul style="list-style-type: none"> • K-ESS3-1 Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live. 	<u>Kindergarten Science</u>

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Mathematics	Cricket Thermometer	<ul style="list-style-type: none"> • K.CC.B.4 Understand the relationship between numbers and quantities; connect counting to cardinality. <ul style="list-style-type: none"> ○ When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object. 	Kindergarten Mathematics
	Collaboration with Nature	<ul style="list-style-type: none"> • K.CC.B.4 Understand the relationship between numbers and quantities; connect counting to cardinality. 	Kindergarten Mathematics
	Collect and Count	<ul style="list-style-type: none"> • K.CC.C.6 Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies. 	Kindergarten Mathematics
	Photograph a Math Problem	<ul style="list-style-type: none"> • .K.OA.A.2 Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem. <p>*Adjusted to Kdg standard K.OA.A.2 from 1st grade standard</p>	*First Grade Mathematics