



# PAPER GROWS TREES



## Next Generation Science and Common Core Standards Alignment

Next Generation Science Standards	Activity 1	Activity 2	Activity 3
GRADES 3-5			
<b>4-ESS3-1 Earth and Human Activity</b> Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.		•	
<b>4-ESS3-2 Earth and Human Activity</b> Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.	•	•	•
<b>5-ESS3-1 Earth and Human Activity</b> Obtain and combine information about ways individual communities use science ideas to protect the Earth’s resources and environment.	•	•	•
GRADES 6-8			
<b>MS-PS1-3 Matter and its Interactions</b> Gather and make sense of information to describe that synthetic materials come from natural resources and impact society.	•	•	
<b>MS-ESS3-3 Earth and Human Activity</b> Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.		•	•

<b>Common Core Math Standards</b>	<b>Activity 1</b>	<b>Activity 2</b>	<b>Activity 3</b>
<b>GRADE 4</b>			
<b>CCSS.MATH.CONTENT.4.NF.7</b> Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole.	•		
<b>GRADE 5</b>			
<b>CCSS.MATH.CONTENT.5.NBT.B.5</b> Fluently multiply multi-digit whole numbers using the standard algorithm.			•
<b>CCSS.MATH.CONTENT.5.MD.C.5</b> Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.			•
<b>GRADE 6</b>			
<b>CCSS.MATH.CONTENT.6.RP.1</b> Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.			•
<b>CCSS.MATH.CONTENT.6.SP.1</b> Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.	•		
<b>CCSS.MATH.CONTENT.6.SP.4</b> Display numerical data in plots on a number line, including dot plots, histograms, and box plots.			•
<b>GRADES 4-6</b>			
<b>CCSS.MATH.PRACTICE.MP2</b> Reason abstractly and quantitatively.	•	•	•
<b>CCSS.MATH.PRACTICE.MP4</b> Model with mathematics.			•

<b>Common Core Language Arts Standards</b>	<b>Activity 1</b>	<b>Activity 2</b>	<b>Activity 3</b>
<b>GRADE 4</b>			
<b>CCSS.ELA-LITERACY.RI.4.4</b> Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a <i>grade 4 topic or subject area</i> .		•	
<b>CCSS.ELA-LITERACY.RI.4.7</b> Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears.		•	
<b>CCSS.ELA-LITERACY.RI.4.9</b> Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably.	•	•	
<b>GRADE 5</b>			
<b>CCSS.ELA-LITERACY.W.5.1</b> Write opinion pieces on topics or texts, supporting a point of view with reasons and information.		•	
<b>CCSS.ELA-LITERACY.W.5.7</b> Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.	•		•
<b>CCSS.ELA-LITERACY.RI.5.4</b> Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a <i>grade 5 topic or subject area</i> .		•	
<b>CCSS.ELA-LITERACY.RI.5.7</b> Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.	•		
<b>CCSS.ELA-LITERACY.RI.5.9</b> Integrate information from several texts on the same topic in order to write or speak about the subject knowledgeably.			•
<b>GRADE 6</b>			
<b>CCSS.ELA-LITERACY.RST.6-8.8</b> Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	•		