Pedal-Powered Portable Paper Making Studio:

Creating a Collaborative Project

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Inspired by Master Papermaker/Artist: Drew Matott of Peace Paper Project  
 <http://www.peacepaperproject.org/index.html>

**STEM** is an integration of science, technology, and/or math to design a solution to a problem.  STEM challenges provide an opportunity demonstrate understanding of science and/or math standards being taught in the classroom.    
  
**STEAM**is the integration of science, technology, and/or math infused with meaningful integration of the arts to design a solution to a problem.  STEAM is the purposeful and intentional use the arts as a vehicle for demonstrating understanding of science and/or math standards being taught in the classroom.     
  
 **True STEAM learning happens when:**   
-Arts standards are infused into STEM instruction  
-Arts modalities are used to interpret, present and share STEM work  
-The Arts are a valid assessment tool for STEM learning

SCIENCE:Design-Demonstrate-Evaluate-Communicate  
KSc: Describe objects in terms of the materials they are made of and their physical attributes.  
1Sc: Information about the basic needs of plants and animals. Weather data to identify weather patterns.  
2Sc: Information about the properties of matter and changes that occur in objects.  
3Sc: Information about the effects of pollution (air, land, and water) and humans on the environment.  
5Sc: Information to compare and contrast the parts of plant and animal cells.

LANGUAGE ARTS: Describe/Sequence the process-Reflect on the experience

SOCIAL STUDIES: History of Papermaking  
1SS: Historical figures in American history. Ben Franklin. Producers and consumers  
4SS:Examples of technological advancements and their impact on business productivity during the development of the U.S.

Resources:  
Video that includes the History of Papermaking: CBS Sunday Morning Segment 6 minutes (show parts)  
<https://www.cbsnews.com/news/the-unfolding-history-of-paper/>

How Paper is Made: Stop-Animation where images are made from Paper connects to recycling-- 2 minutes (used as wrap-up) <https://www.youtube.com/watch?v=7IP0Ch1Va44>