


Literacy-Based Making Activity

Grade Level: 3 - 5	Book: The Most Magnificent Thing : by Ashley Spires
Lesson Objective: Students design and build a scribbling machine with magnificent qualities.  <p><i>Experiment with different materials you make it go really slow</i></p>	
Topic/Theme: 3-5-ETS1-1 . Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.	Benchmark Units: <ul style="list-style-type: none">• Welcome to 3 - 5 grade class (rules and procedures)• Cause and effect relationships
Materials: <ul style="list-style-type: none">• AA battery and battery holder w/ leads• 1.5V motor• Glue stick pieces or cork (attach to motors to make “wobbling” object)• Tape, rubber bands, etc.• Colored markers (3 - 4 per bot)• Makery supplies (cups, strawberry baskets, small boxes, etc.)	Pre-Lessons Suggested (If any) <ul style="list-style-type: none">• Prior knowledge of circuits, possibly exploring circuit blocks and defining what is necessary for making a motor spin.
Steps: <ol style="list-style-type: none">1) Read The Most Magnificent Thing: by Ashley Spires with whole class2) Tell students that they will be creating a scribbling machine (can be done individually or in groups depending on student choice)3) Show students available materials and how to attach the wobbling object to the motor with the short piece of glue stick4) Students create scribbling machines. (Can be made with or without colored markers.)5) Share out (whole class, small group, gallery walk style, etc.)	