



Standards For Door 32  
Grade Band Elementary

NGSS	Next Generation Science Standards
K-2-ETS1-1	Ask questions, make observations, and gather information about a situation people want to change to define a simple problem.
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.
3-5-ETS1-2	Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints.
3-5-ETS1-3	Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

Science	Missouri Learning Standards
SCI.3.ETS1.A.1	Define a simple design problem that can be solved through the development of an object, tool, process, or system.
SCI.4.ETS1.B.1	Generate and compare multiple solutions to a problem using models.
SCI.5.PS3.D.1	Use models to describe that energy in animals' food was once energy from the sun. (if energy is introduced via motor/power concepts)
Reading	English Language Arts (Reading & Writing)
R.3.3.A/ R.4.1.A	Develop and apply skills to the reading process. Use text evidence to support inferences.
R.3.2.A/ R.4.2.A	Analyze literary text for story elements, theme, and point of view.
Writing	
W.3.1/ W.4.1	Write opinion pieces with reasons supported by facts and details.
W.3.3/ W.4.3	Write narratives to develop real or imagined experiences using descriptive details and clear event sequences.
Measurement and Data	Mathematics

3.MD.4/ 4.MD.4	Generate measurement data and represent it in graphs.
4.MD.5	Understand concepts of angle and measure angles (relevant for door mechanics and angles).
<b>Geometry and Spatial Reasoning</b>	
3.G.1/ 4.G.1	Recognize and draw shapes having specified attributes, understand concepts of area/perimeter which support physical construction,
<b>Mathematical Practice Standards</b>	<b>Modeling &amp; Problem Solving</b>
MP1	Make sense of problems and persevere in solving them.
MP4	Model with mathematics.
MP5	Use appropriate tools strategically.
<b>Computer Science</b>	<b>Missouri K-5 Draft Standards</b>
DA.K-5.1	Collect and represent data in various ways.
AP.K-5.2	Develop programs with sequences and simple loops to solve problems.
AP.K-5.3	Decompose (break down) problems into smaller, manageable parts.
IC.K-5.1	Communicate how computing can affect personal and global impact.

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