

# How does the project align to the Next Generation Science Standards?

NGSS	Project
<b>3-PS2-2:</b> Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.	<i>Students will observe and compare motions on the automaton, as well as predict how those motions repeat themselves. (Sections 1, 2, 3, 4)</i>
<b>3-5-ETS1-1:</b> Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.	<i>Students will define the objective, materials, and design before creating mechanical art for their automaton. (Section 4)</i>
<b>3-5-ETS1-2:</b> Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.	<i>Students will experiment with cams and followers to recreate a given set of motions. (Section 2)</i>