Challenger Learning Center of Northwest Indiana
Engineering Ed-Ventures Standards Alignment

<mark>**INDIANA STATE STANDARDS – 2023 (linked with NGSS)**</mark>

Grades 3-5 – Engineering Design

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 of the problem.

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.

Grades 3-5 – Computer Science

3-5.PA.1: Collaborate with peers to implement problem-solving steps to create a variety of programming solutions.

3-5.PA.2: Design programs that incorporate sequences, events, loops, and conditionals.

Grade 3 – Science

3-PS2-2 Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.

Grade 4 – Science

4-PS3-4 Apply scientific ideas to design, test, and refine a device that converts energy from one form to another..

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