



Whirligig Aerodynamic Activity

AUTHOR

STEM Pre-Academy

GRADE LEVEL

6-12

CONTENT TOPICS

Math
Science
EDP

DESCRIPTION

An engineering design activity that introduces the Aerodynamic concepts (lift, drag, and gravity) for students to apply in the design and creation of a whirligig to maximize the time of descent. The engineering notebook documents student work of the engineering design process and addresses all 8 of the NGSS Science and Engineering Practices (SEP).

Instructional materials include teacher presentation, student pre-session materials, and student engineering notebook.

This activity was used at a teacher training session Gr 6-8 on 12/6/2017.

SUGGESTED STANDARDS CONNECTIONS

NGSS

ETS1-1
ETS1-2
ETS1-3
ETS1-4

MSPS2-2