

# NGSS MS-ETS1

## Engineering Design

### Full Standard BUNDLE

- ✓ Everything You Need to Teach NGSS MS-ETS1
- ✓ Lessons, Activities, Labs, Projects, and more
- ✓ MS-ETS1-1, MS-ETS1-2, MS-ETS1-3, MS-ETS1-4



# Resources Included

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## **MS-ETS1-1, ETS1-2, ETS1-3, ETS1-4**

- The Scientific Method – Lesson
- STEM Challenge Journal
- Pasta Bridge STEM Engineering Challenge
- Straw Tower STEM Engineering Challenge
- Balloon-Powered Rocket STEM Engineering Challenge
- Marshmallow Catapult STEM Engineering Challenge
- Scientific Method MandM Activity
- Paper Bridge STEM Engineering Challenge
- Egg Drop STEM Engineering Challenge
- Paddle Boat STEM Engineering Challenge
- Simple Telescope STEM Engineering Challenge
- The Electric Home - Electricity PBL Project
- Paper Towel Absorbency Test
- Paper Ball Run STEM Engineering Challenge
- Wind-Powered Car STEM Engineering Challenge
- Pasta Tower STEM Engineering Challenge
- Portable Water Purification STEM Engineering Challenge
- Portable Water Purification – Reading The Scientific Method PBL
- Crash Course KIDS Video Worksheet – ENGINEERING

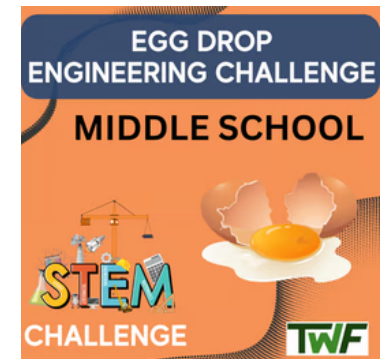
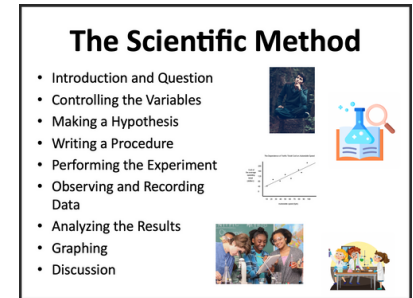
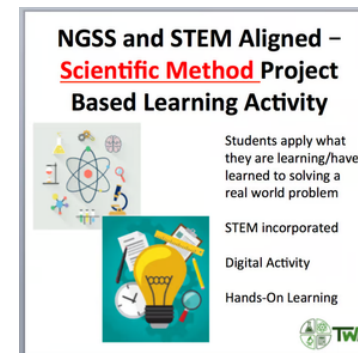
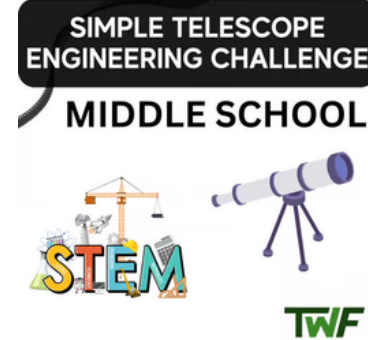
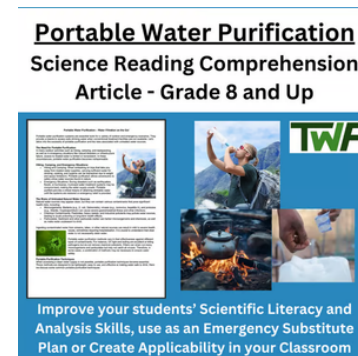
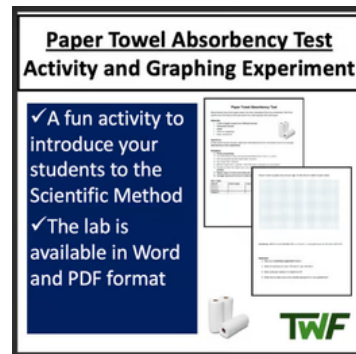
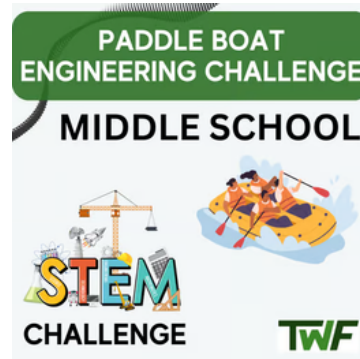
# Everything You Need to Completely Cover NGSS MS-ETS1

## Complete Lesson

## Activities

## Labs

## Projects



# The Standard is Explained and the Resources it Incorporates are Outlined

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## **MS ETS1 Engineering Design**

**MS-ETS1-1.** Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.

**MS-ETS1-2.** Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.

**MS-ETS1-3.** Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.

**MS-ETS1-4.** Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.

### *Resources:*

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# **Who is this Bundle for?**

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- **Teachers who teach Middle School Science and use the NGSS**
- **Teachers who want multiple resources at their fingertips including lessons and a variety of activities, in order to meet the standard**
- **Teachers who don't have time to develop their own resources or organize what to teach and when**