

NGSS MS-ESS1-2

Curriculum Bundle

Gravity & Orbital Motion Modeling the Solar System & Galaxies

- ✓ 2 Lessons, 7 Activities, and 1 Project
- ✓ Daily Teaching Timeline Included
- ✓ Everything You Need to Teach NGSS MS-ESS1-2

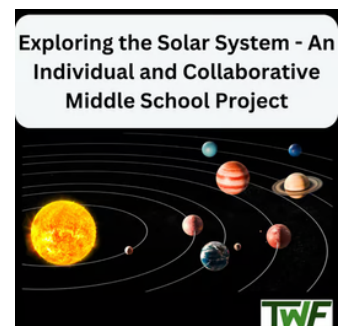
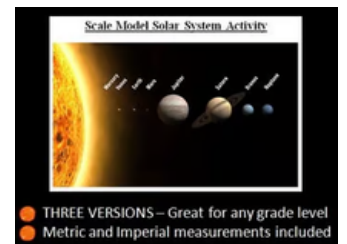


Resources Included

✓ 2 Lessons

✓ 7 Activities + 1 Project

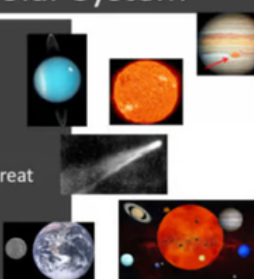
- Our Solar System – Lesson
- Galaxies Other Objects and the Universe – Lesson
- Model Solar System Activity
- Exploring the Solar System Project
- Crash Course Video Worksheet - The Gravity of the Situation
- Crash Course Video Worksheet - The Solar System
- Crash Course Video Worksheet - Newtonian Gravity
- Stars Galaxies and the Universe - Word Search and Scramble
- Bill Nye Outer Space Video Worksheet
- Our Solar System Digital INB



Everything You Need to Teach NGSS MS-ESS1-2

Our Solar System

- The Sun
- Mercury
- Venus
- Earth
- Mars
- Jupiter and its Great Red Spot
- Saturn
- Uranus
- Neptune
- Why Pluto Was Demoted



Google Slides and PowerPoint Versions Included
Google Classroom Ready

Galaxies, Other Objects, and the Expansion of the Universe

- Types of Galaxies
- Asteroids
- Meteors, Meteoroids, and Meteorites
- Comets
- The expansion of the Universe



Google Slides and PowerPoint Versions Included
Google Classroom Ready

Exploring the Solar System - An Individual and Collaborative Middle School Project



Chapter 2 – Our Solar System

Digital Interactive Notebook Pages

- 100% Digital and Interactive
- Perfect for your Google Classroom or Microsoft OneDrive



TWF

Stars, Galaxies, and the Universe Word Search and Scramble

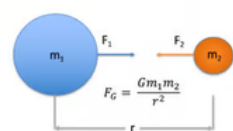
- THREE Activities in One! **TWF**
1. Basic 25-Term Word Search
 2. Scrambled Words Word Search
 3. Word Scramble and Define Activity



Crash Course Physics #8 Newtonian Gravity

- ✓ Classroom Ready - Just Print and Go!
- ✓ Active Engagement - Keep Students' Attention
- ✓ Direct Video Link Included

[WATCH VIDEO](#)



Includes Student Copy and Answer Keys

Crash Course Astronomy #7 The Gravity of the Situation

- ✓ Classroom Ready - Just Print and Go!
- ✓ Active Engagement - Keep Students' Attention
- ✓ Direct Video Link Included

[WATCH VIDEO](#)



Scale Model Solar System Activity



- THREE VERSIONS – Great for any grade level
- Metric and Imperial measurements included

Crash Course Astronomy #9 The Solar System

- ✓ Classroom Ready - Just Print and Go!
- ✓ Active Engagement - Keep Students' Attention
- ✓ Direct Video Link Included

[WATCH VIDEO](#)



Includes Student Copy and Answer Keys

Includes a Daily Teaching Timeline for the Standard and the Resources it Uses

MS ESS1 Earth's Place in the Universe

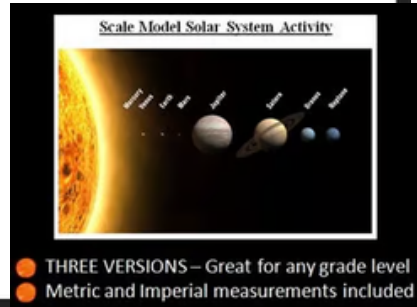
MS ESS1-2: Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.

Emphasis for the model is on gravity as the force that holds together the solar system and Milky Way galaxy and controls orbital motions within them. Examples of models can be physical (such as the analogy of distance along a football field or computer visualizations of elliptical orbits) or conceptual (such as mathematical proportions relative to the size of familiar objects such as students' school or state).

Assessment Boundary: Assessment does not include Kepler's Laws of orbital motion or the apparent retrograde motion of the planets as viewed from Earth.

Resources:

- Our Solar System – Lesson
- Galaxies Other Objects and the Universe – Lesson
- Model Solar System Activity
- Exploring the Solar System Project
- Crash Course Video Worksheet - The Gravity of the Situation
- Crash Course Video Worksheet - The Solar System
- Crash Course Video Worksheet - Newtonian Gravity
- Stars Galaxies and the Universe - Word Search and Scramble
- Bill Nye Outer Space Video Worksheet
- Our Solar System Digital INB



NGSS Standard Daily Teaching Plan

MS ESS1-2: Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.

Lesson Length: 55 minutes

Timeframe: 2 Weeks, 10 Days

Day #	Lesson/Activity
Day 1	Our Solar System – Lesson Bill Nye Outer Space Video Worksheet
Day 2	Crash Course Video Worksheet - The Solar System Our Solar System Digital INB
Day 3	Model Solar System Activity Stars Galaxies and the Universe - Word Search and Scramble
Day 4	Galaxies Other Objects and the Universe – Lesson Crash Course Video Worksheet - The Gravity of the Situation
Day 5	Crash Course Video Worksheet - Newtonian Gravity Exploring the Solar System Project (Part 1 – Introduction & Planning)
Day 6	Exploring the Solar System Project (Part 2 – Research & Work Session)
Day 7	Exploring the Solar System Project (Part 3 – Continue Work & Begin Presentations)
Day 8	Exploring the Solar System Project (Part 4 – Student Presentations)
Day 9	Stars Galaxies and the Universe - Word Search and Scramble (as review) Discuss Gravity Concepts & Connections Review
Day 10	Exploring the Solar System Project (Part 5 – Final Presentations & Wrap-Up)



Who is this Bundle for?

- **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**