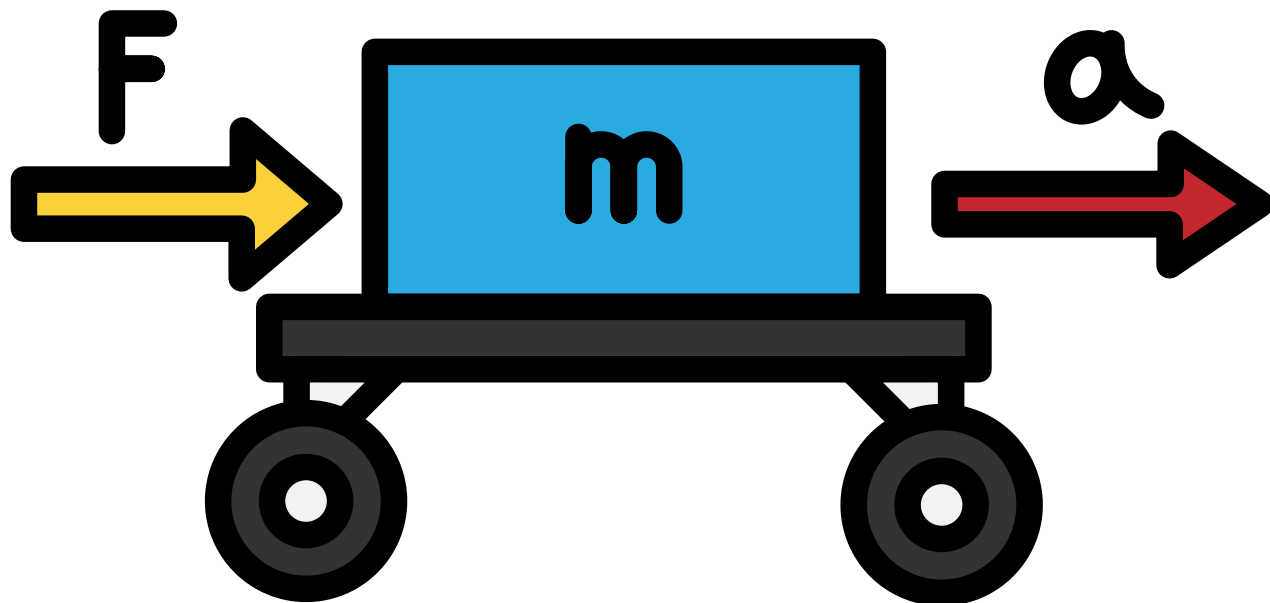


NGSS MS-PS2-2

Curriculum Bundle

Forces and Motion: Newton's First and Second Laws

- ✓ 1 Lesson and 4 Activities
- ✓ Everything You Need to Teach NGSS MS-PS2-2



Resources Included

✓ 1 Lesson

✓ 4 Activities

- Newton's Laws of Motion – Lesson
- Newton's Second Law Student-Led Lab
- Newton's Laws Identification Worksheet
- Newton's Laws of Motion Word Search and Scramble Activity
- The Newtonian Adventures - Story Prompt

Newton's 3 Laws of Motion
Lesson MS-PS2-1 & MSPS2-2

Included in your Lesson:

- Forces and Net Force
- Newton's First Law
- Newton's Second Law
- Newton's Third Law
- Multiple Applications for Each Law
- Student Worksheet

Middle School 20 N → 10 N ←



Newton's Second Law
Student-Led Lab

NGSS MS-PS2-2
Students design and carry-out an experiment to test Newton's Second Law of Motion

NGSS MS-PS2-2



Everything You Need to Teach NGSS MS-PS2-2

Newton's 3 Laws of Motion Lesson MS-PS2-1 & MSPS2-2

Included in your Lesson:

- Forces and Net Force
- Newton's First Law
- Newton's Second Law
- Newton's Third Law
- Multiple Applications for Each Law
- Student Worksheet



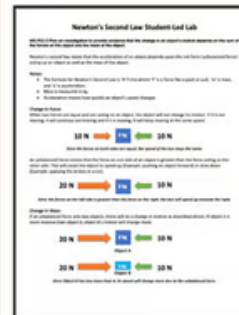
Middle School

20 N → 2 kg ← 10 N

Newton's Second Law Student-Led Lab

NGSS MS-PS2-2
Students design and carry-out an experiment to test Newton's Second Law of Motion

NGSS MS-PS2-2



TWF

Newton's Laws of Motion Word Search and Scramble

THREE Activities in One!

1. Basic 22-Term Word Search
2. Scrambled Words Word Search
3. Word Scramble and Define Activity



TWF



The Newtonian Adventures- Unleashing the Power of Physics

Story Prompt



Newton's 3 Laws Identification Worksheet

NGSS MS-PS2-1 and PS2-2

Students analyze 10 different real-life situations and determine which of Newton's 3 Laws can be used to explain what is happening.



NGSS MS-PS2-1 and PS2-2

TWF

The Standard is Explained and the Resources it Incorporates are Outlined

California Preferred Integrated NGSS Course Model – Grade 8 MS PS2 Motion and Stability: Forces and Interactions

MS PS2-2: Plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object.

Emphasis is on balanced (Newton's First Law) and unbalanced forces in a system, qualitative comparisons of forces, mass and changes in motion (Newton's Second Law), frame of reference, and specification of units.

Assessment Boundary: Assessment is limited to forces and changes in motion in one-dimension in an inertial reference frame and to change in one variable at a time. Assessment does not include the use of trigonometry.

Resources:

- Newtons Laws of Motion – Lesson
- Newton's Second Law Student-Led Lab
- Newton's Laws Identification Worksheet
- Newtons Laws of Motion Word Search and Scramble Activity
- The Newtonian Adventures - Story Prompt

Newton's 3 Laws of Motion Lesson MS-PS2-1 & MSPS2-2

Included in your Lesson:

- Forces and Net Force
- Newton's First Law
- Newton's Second Law
- Newton's Third Law
- Multiple Applications for Each Law
- Student Worksheet



Middle School

20 N → 2 kg ← 10 N

The Newtonian Adventures- Unleashing the Power of Physics Story Prompt



Newton's Second Law Student-Led Lab

NGSS MS-PS2-2
Students design and carry-out an experiment to test Newton's Second Law of Motion



NGSS MS-PS2-2

TWF

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**