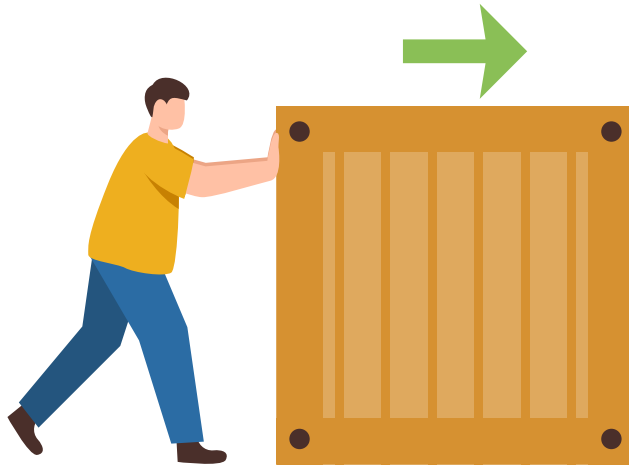


# TEKS Grade 7 - S.7.7.D

## Newton's First Law of Motion

- ✓ 7th Grade Science TEKS Curriculum Bundle
- ✓ Variety of Lesson and Activity Types
- ✓ Digital + Printable Formats



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# NEW 2024

# **Resources Included**

- ✓ **Complete S.7.7.D - 7th Grade Science TEKS Curriculum.**
- ✓ **Variety of Lesson Types** - Includes lessons, activities, assessments, and more.
- ✓ **Daily Teaching Timeline Included** - Includes a ready-to-go, daily teaching timeline.
- ✓ **Digital + Printable Formats** - Ideal for classroom, hybrid, or remote learning environments with flexible access options.

# Daily Teaching Timeline Included

## TEKS – Grade 7

**5.7.7 Force, motion, and energy.** The student describes the cause-and-effect relationship between force and motion.

**5.7.7.D** - The student is expected to analyze the effect of balanced and unbalanced forces on the state of motion of an object using Newton's First Law of Motion.

**Resources:**

- *Newton's 1st Law of Motion - Lesson*
- *Newton's 1st Law of Motion - Activities*

## TEKS Science Daily Teaching Plan

**Lesson Length:** 55 minutes

**Timeframe:** 3-4 Days

| Day   | Lesson/Activity                                                                                                                             |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Day 1 | Newton's 1st Law of Motion - Lesson                                                                                                         |
| Day 2 | Newton's 1st Law of Motion – Activities <ul style="list-style-type: none"><li>• Activity 1: Coin and Card Inertia Challenge</li></ul>       |
| Day 3 | Newton's 1st Law of Motion – Activities <ul style="list-style-type: none"><li>• Activity 2: Balloon Rocket Motion Test</li></ul>            |
| Day 4 | Newton's 1st Law of Motion – Activities <ul style="list-style-type: none"><li>• Activity 3: Chair Push and Friction Investigation</li></ul> |

## THREE Newton's 1<sup>st</sup> Law Activities



Includes student notes in easy-to-fill-in formats.

Newton's 1<sup>st</sup> Law of Motion  
Activity 1: Coin and Card Inertia Challenge  
Objectives:  
Students will demonstrate inertia by observing how an object at rest stays at rest unless acted upon by an unbalanced force.  
Materials:  
• Index card (or playing card)  
• Plastic cup (other 2 possible)  
• Coin (quarter or similar)  
Instructions:  
1. Place the cup upright on a table.  
2. Lay the index card flat across the top of the cup.  
3. Place the coin on the center of the card.  
4. Flick the card sideways quickly with your finger.  
5. Observe what happens to the coin.  
6. Record your observations and explain why the coin falls into the cup instead of moving sideways with the card.  
7. Repeat the experiment with different flicking speeds (slow vs. fast).  
8. Answer the following reflection questions:  
• How does this demonstrate Newton's First Law of Motion?  
• What would happen if the card is pulled away "faster"?  
• How does the balance of forces change during the flick?



Google Classroom Ready  
One-Click Google Slides Access

## Newton's First Law of Motion

- ✓ Teaches: Newton's 1<sup>st</sup> Law of Motion including Theory, Applications, and Student Activities.
- ✓ Ideal for Middle School Science
- ✓ No-Prep Resource



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# **Who is this Bundle for?**

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- **Teachers who teach 7th grade science in Texas**
- **Teachers who want multiple resources at their fingertips including lessons and a variety of activities, in order to prepare their students for the STAAR Science Exam**
- **Teachers who don't have time to develop their own resources or organize what to teach and when**

