

5E Lesson Plan

Lesson Title: Kites, Surface Area and Newton's 3rd Law

Subject area / course / grade level: Science 5th Grade

Introduction:

Lift and Newton's 3rd Law: Wind striking a kite surface will create a force that causes the kite to fly. This force can be felt as wind pushes on the kite and as the kite tugs on its string. An understanding of Newton's Third Law explains this force.

Newton's Third Law, often stated as, "for every action (or force) there is always an equal and opposite reaction (or force)," is one of the basic principles on which flight is based. The law predicts that forces always come in pairs and act in opposite directions. The wind pushing on the kite is equal to the kite pushing back on the wind.

At any time there are four forces acting on a flying kite: lift, weight, thrust, and drag. The force that lifts, or pushes, or pulls the kite vertically upward is called "lift". Gravity pulls the kite toward the earth. The downward force of gravity acting on the mass of the kite is called "weight". As you pull on a kite string you are providing "thrust". The resistance of the kite to the horizontal thrust is called "drag". When a kite flies as a constant velocity all forces are equal. Lift opposes and equals weight while thrust opposes and equals drag.

Lesson Length: 3-4 hours

Materials: (for each team of 3/4 students)

- 2 kites of various sizes (Students may make the kites, or they may be store bought.)
- Kite string
- 2 pull force meters that measure from 0-10 or 0-20 Newtons.
- Pencils
- Meter sticks Scissors
- Colored Markers

Tennessee Standards:

- **GLE 0507.Inq.1** Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data.
- **GLE 0507.Inq.2** Select and use appropriate tools and simple equipment to conduct an investigation.
- **GLE 0507.Inq.3** Organize data into appropriate tables, graphs, drawings, or diagrams.
- **GLE 0507.Inq.4** Identify and interpret simple patterns of evidence to communicate the findings of multiple investigations.
- **GLE 0507.T/E.1** Describe how tools, technology, and inventions help to answer questions and solve problems.
- **GLE 0507.11.1** Design an investigation, collect data and draw conclusions about the relationship among mass, force, and distance traveled.
- **GLE 0507.12.1** Recognize that the earth attracts objects without directly touching them.
- **GLE 0507.12.2** Investigate how the shape of an object influences the way that it falls toward the earth.

Math Power Standard:

Grade 5:

- Find the area, volume and surface area of geometric figures including irregular shapes, prisms and polyhedral solids.

5 E Lesson Plan Kindergarten

AW Rasmussen



5 E Lesson Plan Kindergarten:

Unveiling the Magic of Words: A Review of "**5 E Lesson Plan Kindergarten**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**5 E Lesson Plan Kindergarten**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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5 E Lesson Plan Kindergarten Introduction

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Gas Variables Pogil Apr 1, 2016 — No, in a non flexible container the volume cannot change to equalize internal and external pressure, so decreasing the external; pressure will ... POGIL Chemistry Activities In this activity, you will explore four variables that quantify gases—pressure (P), volume (V), temperature (T), and moles (n) of gas. These four variables can ... Gas Variables Pogil Gas Variables Pogil. Hailey Calkins at 7:11 PM. Share. 2 comments: BradenTheSlav March 6, 2021 at 8:52 AM. Number 24 is wrong, as the ideal gas law is $PV=nRT$. Pogil Experimental Variables Answer Key ... Answer Championsore Yeah, reviewing a books Gas Variables Pogil Activities ... , Pogil Activities For High School Chemistry Gas Variables Answers. Pogil Gas Variables Answer Key Pdf , Experimental Design Pogil Answer Key., Pogil Activities For High School Chemistry Gas Variables Answers., Pogil activities for ap chemistry answers free ... Pogil Gas Variables Answer Key Pdf Merely said, the Pogil Activities For High School Chemistry Gas Variables Answers Pdf is universally compatible with any devices to read gas variables pogil ... Pogil Gas Variables Answer Key ... Pogil High School Chemistry Gas Variables. Gas Variables Pogil Answer Key ... Chemistry Worksheet Answers 6 POGIL™ Activities Gas Variables Pogil Activities ... David German, Festive Trumpet Tune - Diane Bish Festive Trumpet Tune by David German | Hauptwerk | Palace ... Festive Trumpet Tune - David German Jul 27, 2021 — Download and print in PDF or MIDI free sheet music for Festive Trumpet Tune by David German arranged by jindra2005 for Organ (Solo) Festive Trumpet Tune - David German Festive Trumpet Tune: Madonna della Strada Weddings Festive Trumpet Tune David German. This majestic piece was written by the composer as a gift to his wife for their own wedding ceremony. Kinetic and Potential Energy Worksheet KEY $g=9.8$ Calculate it. 21. Determine the kinetic energy of a 1000-kg roller coaster car that is moving with a speed of 20.0 m/s. 22. KINETIC AND POTENTIAL ENERGY WORKSHEET Answer the following: a. What is the kinetic energy of a 1-kilogram ball is thrown into the air with an initial velocity of 30 m/sec? $KE = \frac{1}{2} m v^2$ $\frac{1}{2} (1 \text{ kg})$... Kinetic Energy (KE) = $\frac{1}{2}$ mass times velocity squared Potential and Kinetic Energy Worksheet. Kinetic Energy (KE) = $\frac{1}{2}$ mass times velocity squared. $KE = \frac{1}{2} m v^2$. Potential Energy (PE) = mass times the acceleration ... Kinetic and potential energy worksheet answer key o myaiu kinetic and potential energy worksheet classify the following as type of potential energy or kinetic energy (use the letters or bicyclist pedaling up ... Kinetic and Potential Energy Worksheet Walkthrough - YouTube kinetic and potential energy worksheet Flashcards A. How much kinetic energy does the ball have? B. How much potential energy does the ball have when it reaches the top of the ascent? KINETIC AND

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