SIMPLE MACHINES





Thank you for considering this LINKtivity for your classroom, but before you make a decision - you should know that you can get access to this LINKtivity + PLUS our entire library for about the same price as a single LINKtivity!

The results are in: **Teachers LOVE LINKtivities**... and want more! So, we've made it SUPER easy and cost effective for you to access any and ALL of our LINKtivities inside our LINKtivity Learning membership option! Instead of purchasing just ONE LINKtivity - why not get access to ALL of them... for about the SAME PRICE!



INSIDE THE MEMBERSHIP YOU'LL HAVE <u>UNLIMITED</u> ACCESS TO:

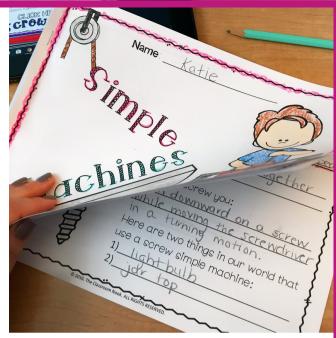
- The entire growing LINKtivity® library inside the Membership (LINKtivities for all content areas)
- ALL future LINKtivities to be added to the membership (new releases each month!)
- Teacher guides to help you set up each LINKtivity® successfully in your classroom
- Student resources that go along with each LINKtivity (printable OR digital)
- Kid-friendly rubrics and answer keys for each LINKtivity®









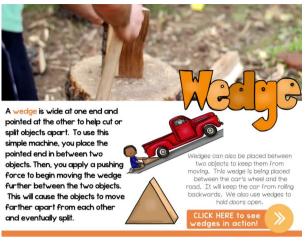


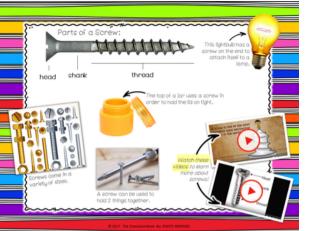
Your students are going to love this hands-on approach to learning about simple machines including pulley, screw, level, wheel & axle, wedge, and inclined plane! Resource includes a LINKtivity digital learning guide, a student flipbook (printable or digital), answer key, a rubric, student directions, and a teacher guide.

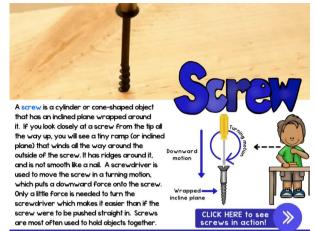




More Sample Slides







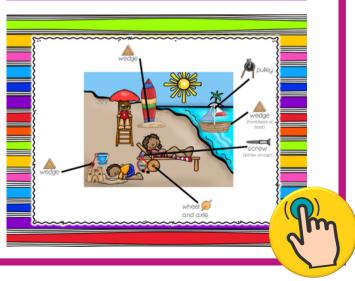














students who could use a little extra support!

An inclined plane is a sloped surface that makes it easier to go from one height to another height. If you need to get a heavy item from a lower level to higher level, an inclined plane will help make the work easier. To use an inclined plane, you apply a pushing force to the heavy object that needs moved. Then, as the object is pushed, the inclined plane will force the object upward to the higher level. The reverse action happens when getting an item from a higher level to a lower level. A pushing force will be used to lower the object down the inclined plane. Gravity helps as well to pull the object downward.



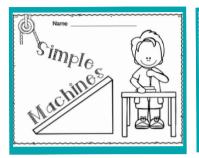
causing it to move upward on the inclined plane (ramp).

CLICK HERE to see inclined planes in action!



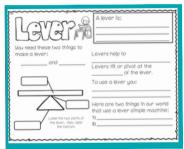
Printable & Digital Student Flipbook

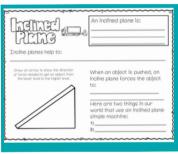
Printable Flpbook for LINKtivity





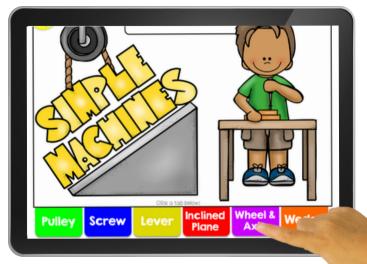




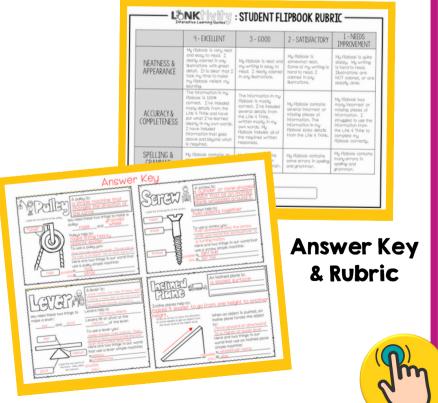








Digital Flipbook for LINKtivity in Google Slides



BONUS RESOURCES

Lesson Plan

LESSON

ESSENTIAL QUESTIONS:

What is a simple machine? How do simple machines make work easier?

Standards Covered

Materials Needed

3.PS2.1, 5.PS2.1

Simple Machines LINKtivity® Simple Machines student flipbook (optional) Rube Goldberg student sheet

Teacher Preparation

Preview the Simple Machines LINKtivity® and plan for how you will share the LINKtivity with students (ex. assign link in Google Classroom, prepare QR codes,

Make copies of the flipbook (optional). Print off the Rube Goldberg student sheet

Lesson Introduction (5-10 min.)

- Introduce the essential questions.
- Provide each student with the Rube Goldberg student sheet.
- Have students observe the machine drawn by Goldberg by following the sequence of actions in the picture. Then, read about Goldberg.
- Explain that in this silly drawing. Goldberg invented a complicated machine to perform a simple task.
- · Discuss how, in real life, people strive to accomplish the opposite: using simple machines to make a complicated task easier. Define simple machine as an object made up of few parts to help create force with less effort and energy (unlike the Goldberg drawing that used many parts).

Lesson Activity (20-30 mins)

Have students complete the Simple Machines LINKtivity®. While navigating the LINKtivity, students have the option to complete the flipbook.

Optional Extension Activities

- Have students go on a scavenger hunt around the school, their homes, or the neighborhood, looking for simple machines in everyday life.
- Challenge students to design and draw a Rube Goldberg machine using various simple machines.

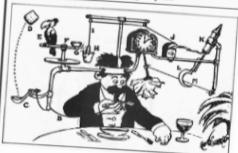
Lesson Conclusion (2-5 min.)

Review essential questions and have students share their responses in light of what they have learned. If time allows, review the Goldberg drawing again and have students identify simple machines used throughout the contraption.

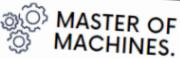
RUBE GOLDBERG

Follow the sequence of events that the machine uses to operate a napkin.

Self-Operating Napkin



The soup spoon (A) is raised to mouth, pulling the string (B) and jerking the ladle (C), which throws cracker (D) past toucan (E). The toucan jumps after cracker and the perch (F) tilts dumping seeds (G) into pail (H). Extra weight in the pail pulls the cord (I), which opens and ignites the lighter (J), setting off the skyrocket (K), which causes the sickle (L) to cut the string (M), allowing the pendulum with attached napkin to swing back and forth, thereby wiping chin.



Rube Goldberg (1883–1970) was an American cartoonist, sculptor, author, and inventor best known for his drawings of machines that did simple things in very silly and complicated ways. These machines are called "Rube Goldberg machines." In 1948, Goldberg won the **Pulitzer Prize** for Editorial Cartooning. Today, when something is too complicated, people say it's like a "Rube Goldberg" machine.

The <u>Pulitzer Prize</u> is a set of prestigious awards for achievements in newspaper, magazine, online journalism, literature, and musical composition



