SYSTEMS IN ACTION

PDF & DIGITAL FORMATS





2 Peas and a Dog

Middle School Teaching Resources

RESOURCE INCLUDES

- ✓ Ontario Curriculum Aligned
- ✓ Detailed Lesson Plans
- ✓ Readings, Videos, Graphic Organizers, Group Work, Projects, Rubrics
- ✓ Hands-On Science Labs
- ✓ MP3 Audio Files
- ✓ Answer Keys
- Quizzes & Unit Test
- ✓ Print & Digital Formats

INCLUDED LESSONS

- Introduction Science Safety
- Systems Introduction What Are Systems?
- Unit Vocabulary
- Types of Systems
- Purpose, Inputs, and Outputs of Systems
- Processes and Components of a System
- Systems in Action Quiz #1
- Force, Work, Displacement, Energy, and Efficiency
- Calculating Work, Force, & Displacement
- Understanding and Calculating Work
- The 6 Simple Machines
- Mechanical Advantage

- Systems in Action Quiz #2
- Energy in Mechanical Systems
- Productivity with Systems in Various Industries
- The Evolution of Cell Phones
- Inquiry Evolution of a System
- Systems in Action Mid-Unit Quiz
- Pulley Experiment
- Rube Goldberg Machine
- Owner's Manual Exploration
- Inquiry The Impacts of New and Existing Systems
- Meeting Needs With Existing Systems
- Systems in Action Unit Test
- Sub Plans/Bonus Files Bill Nye Video & Self-Driving Cars Non-Fiction Article

UNIT ORGANIZATION

GRADE 8 SYSTEMS IN ACTION ONTARIO CURRICULUM ALIGNMENT

Lesson	2007 Curriculum	2022 Curriculum
Introduction & 1: Safety & Vocabulary	2.1, 2.6	A1.4, A1.5
2. Types of Systems	3.1	D2.1
3. Purpose, Inputs & Outputs of Systems	3.2	D2.2
4. The Processes and Components of a System	3.3	D2.3
5. Quiz	Review	Review
6. Work, Energy, Force, and Efficiency	3.4	D2.4
7A. Calculating Work	3.5	D2.5
7B. Understanding Work	2.2	D2.5
8. 6 Simple Machines	3.6	D2.6
9. Understanding Mechanical Advantage	3.6	D2.6
10. Quiz	Review	Review
11. Energy in Mechanical Systems	3.7	D2.7
12. Productivity with Systems in Various Industries	3.8	D2.9

CURRICULUM **ALIGNMENT**

LESSON OVERVIEW

>>>>>>

Lesson	Activity Type	Name Suggested T		Activity Type Name Suggested Tim	
Intro & #1	Class Discussion QR Code Scavenger Hunt	What are Systems? & Unit Vocabulary	1 – 2 Classes		
#2	Whole Class Readings, Videos & Sort and Match	Types of Systems	1 – 2 Classes		
#3	Whole Class Readings & Photo Analysis	Purpose, Inputs & Outputs of Systems	1 – 2 Classes		
#4	Whole Class Readings, Videos & Labelling Activity	The Processes and Components of a System	1 – 2 Classes		
#5	Quiz	Quiz	0.25 Class		
#6	Whole Class Work, Energy, Readings, Videos & Force, and Note Taking Efficiency		2 Classes		
	0 - 1 1 - 1				

UNIT PLAN

LESSON #1



Lesson Overview:

Students will work on reviewing vocabulary for this unit.

Materials Needed:

- ☐ Reliable technology (computer, internet, data projector)
- ☐ Photocopy a class set or use the provided Google Slides version of the:
 - Vocabulary sheets (QR Code or Non-QR Code option)
 - Vocabulary graphic organizer
 - Definitions (For IEP and ESL students)
 - Definitions Google Slides

Teacher Instructions:

- 1. Hang the vocabulary words up around the classroom or in the hallway using the QR code or non-QR code format.
- 2. Divide the class up into groups of 4.
- 3. Have students walk around the classroom or hallway and find the vocabulary sheets. Students need to scan the QR code with their phones to uncover the mystery word. Once they have uncovered the mystery word, have them write it on the

4. This Slid 5. Onc

def she **LESSON PLANS**

the Google

definitions

WHAT'S INSIDE?



TYPES OF SYSTEMS



What are Systems?

When you think of systems, you might think of a computer or gaming system. You may even think of a bus system. Systems are everywhere. Systems occur when there are components or processes that work together to perform a goal or meet a need. Some systems are human-made (e.g., bikes), while others are natural (e.g., bird colonies). There are mechanical systems that make sure cars are made and transportation systems are created to ensur uman body is m, which allows v process your tooa. There are also many social systems. For example, schools are a social system. There are rules that both students, teachers, and administrators have to follow to make sure there is order in education. There are two major types of systems that exist — physical systems and social systems. Both sets of systems and all of their subsystems make our world function.

Mechanical Systems

Mechanical systems involve the combination of simple machines that work together to perform a task. Elevators, for example, are a mechanical system. Elevators use pulleys to push people up and bring them back down.

SCIENCE VOCABULARY WORD #1

Using a phone or a tablet, scan the QR code below to find the hidden word.



TYPES OF SYSTEMS - SORT AND MATCH

Cut out the titles and images below. Match the correct title with all the images that relate. Once checked by your teacher, glue the pieces onto the back of the "Types of Systems" article.

Physical Systems

Social Systems



















WHAT'S INSIDE?



SA	MPL	E ANSWER	RS	
Photo of a Lush Garden				
What is the purpose?	What	are the inputs?	What are the outputs?	
• The purpose of a garden is to grow things.	• The gard		SAMPLE ANSWERS	
11111193.	feri	In your own words, describe mechanical advantage.	MA stands for Mechanical Advantage. This is the way of expressing how much easier work becomes when using a simple machine. In the equation, F_m is the force that is exerted, while F_{out} is the force that you get as a result of the force exerted.	
Photo of a Bicycle				
What is the purpose?	What	V. //	Another way of looking at this equation is to think of	
The purpose of a	• 0ne	What is the difference	F_{in} as the force you actually have to exert to	
bike is you f to an	S	VER	KEYS	
		How do you	We can calculate how much easier the work becomes when we use simple machines using an equation:	
Photo of a Computer Cha	air	calculate	$MA = \frac{F \text{ out}}{F \text{ in}}$	
What is the purpose?	What	mechanical advantage?	I III	
The purpose of a computer chair is to	• An inpu	ad variage:		
sit comfortably, with correct posture, at a computer or desk.	the	What does it mean when the mechanical	When there is a mechanical advantage of 1, it means that both the input and output force are exerting the same energy. In these cases, the direction between both forces changes – it does not make the work easier.	
	© ht	advantage is 1?		

RUBE GOLDBERG CREATION LAB

Task: Your task is to use your knowledge of simple machines and systems to create a Rube Goldberg machine that performs a function or meets a need.



Instructions:

THE EVOLUTION OF CELL PHONES

In the mind map below, think about reasons why cell phones may have evolved over the last 50 years.

WHY HAVE CELL

PHONES EVOLVED?

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ant to accomplish, or what need you want to berg Machine.

n the provided graphic organizer.

succinct plan in mind, begin collecting all the an use anything that you have access to, like rope, tape, screws, etc. Nothing can be materials must be found at school or in your

your materials, you can begin to build your s point, you will want to write down the ou go alona.

tem is complete, you will need to test it. Use ded and test your machine a few times to ink about what works and what could be done

hine a few times, you will want to complete graphic organizer. Think about what would changed a piece or a component of the

achine entirely, you can complete the lab

hplete, you will do a brief 3—4 minute esent the device, discuss the simple machines challenges or oughout the building

LABS &

INQUIRIES

TEACHER FEEDBACK

"This is an awesome unit! I have all your Grade 8 science units and this was an excellent addition to the others. Excellent variety of lessons, activities, and assignments. My students found it engaging and meaningful. Thanks!" - Margaret B.

INTRODUCTION



SCIENCE SAFETY RULES

symbols).

is broken/faulty

1. LISTEN

2. ATTIRE

✓ Wear

3. READ ✓ Any la

symbo ✓ The pr

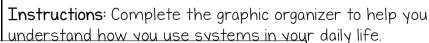
4. TOOLS

✓ Wash hands with soa

SAFETY RULES QUIZ Complete the following true/false questions on safety: ✓ To ALL the teacher's 1. When you clean-up, wash your hands with just water. ✓ Know the location of 2. Before you begin, you must listen to ALL the teacher's instructions. Wear safety goggles Tie-up any loose itel 3. Remember to tie-up any loose items (e.g. hair, especially when wor SCIENCE SAFETY RULES 6. Do not bother reading your procedure, just make it ✓ Handle all tools with d up as you go! ✓ Inform the teacher 7. Handle all tools with care, especially sharp objects. there is a spill. ✓ Do not taste test and 8. Wear open-toe shoes, and use gloves/goggles as needed. 5. CLEAN-UP ✓ Thoroughly wash all u 9. Read labels on chemicals used carefully (e.g., WHMIS

10. Do not tell the teacher if there is a spill or if an item

EVERYDAY SYSTEMS





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_	K-W-L CHAR pic: Systems in Ac-	-	
K	W	L	
What do] about	SYS	What new thinas did T	
	ITROE		
		TEMS	

sandadoa con

LESSON 1 & 2

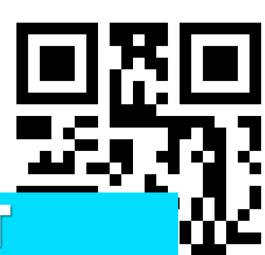


SCIENCE VOCABULARY

WU SCIENCE VOCABULARY WORD #1

Using a phone or a tablet, scan the QR code below to find the hidden word.

MECH **ADV**



UNIT VOCABULARY



TYPES OF SYSTEMS

TYPES OF SYSTEMS - SORT AND MATCH

Cut out the titles and images below. Match the correct title with all the images that relate. Once checked by your teacher, glue the pieces onto the back of the "Types of Systems" article.

Physical Systems

Social Systems







hink of a computer or bus system. Systems are are components or m a goal or meet a need. ikes), while others are chanical systems that ation systems are created round easily. The human respiratory system, which stem that helps you stems. For ules that both llow to make sure ypes of systems Both sets of



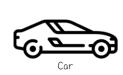














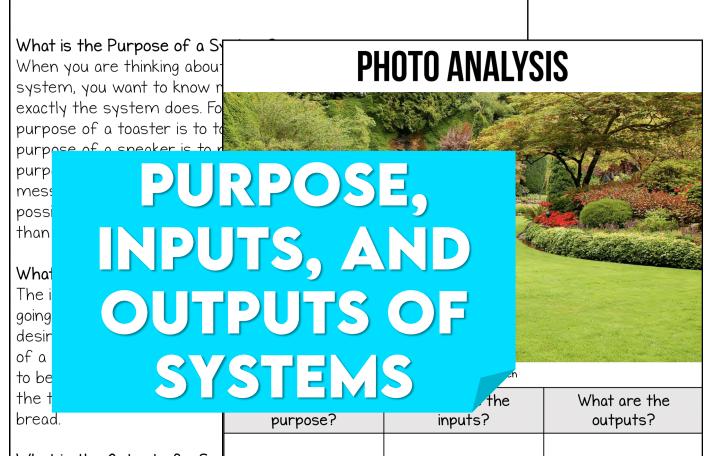
ion of simple machines levators, for example, are a to push people up and

world function.

LESSON 3 & 4



PURPOSE, INPUTS, AND OUTPUTS



What is the Output of a Sys The output of a system ret come out of the system as input. In other words, what used for? For the toaster e will be that the toast warm of the toaster to become to

PROCESSES AND COMPONENTS OF ROBOTS

ROBOT BRAINSTORMING ACTIVITY

In the mind map below, think about which systems or components are needed to make and use robots.

PROCESSES & COMPONENTS OF A SYSTEM v and efficiently.

p that acts as their brain. rols – can tell the robot o have their physical the robot and protects its found in robots,. These heir structures to perform listen, there is also likely a s are. as well as how far

things that

nat make

ject or person. There are a

it function correctly and

hore of the components,

ROBOTS

LESSON 5 & 6

Efficiency

/5



LESSON #5

Syste	SYSTEMS IN ACTION QUIZ #	† 1	
.esson Overview: itudents will demonstrate t	Name:		
	Complete the following True/False questions on system by circling the correct answer.	ns in act	ion
Materials Needed: Photoc			
- Si	YSTEMS IN	Т	F
eacher I			
	ION QUIZ #1	Т	F
5. Once the quiz is complete			
	3. The input force of a system refers to what will	Т	F
	come out of the system.		
	come out of the system.		
	4. The outputs of a garden would be the food you	Т	F
	can eat, as well as the flowers and plants that grow.		
	carrear, as well as the riowers and plants that grow.		
	5. If you know the purpose of a machine, you know	Т	F
© http	what the system or machine will do.		

FORCE, WORK, DISPLACEMENT, ENERGY, AND EFFICIENCY

WORK, FORCE, DISPLACEMENT, ENERGY,
AND EFFICIENCY



Force

Scientific Definition

Real—Life Example

and output energy was and whether that energy if you think about a TV, the cumentary for icity, and the output

FORCE, WORK, a, it ed :

DISPLACEMENT, d it nucl

Energy

Energy

FORCE, WORK, a, it ed :

DISPLACEMENT, d it nucl

ENERGY, & It TV is the total input energy is

′200Ј

% efficient.

LESSON 7A & 7B

CALCULATING WORK, FORCE, AND DISPLACEMENT

CALCULATING WORK PROBLEMS

Equation

 $W = f \times d$



on is to push

ce used is

ne trying to

If we calculate work, then energy was used to move or a force causes something to how

Why Calculate Work?

You

took

mo

of t

Jou

joule

Instructions: Calculate work with the following questions. Be sure to

CALCULATING WORK, FORCE, & DISPLACEMENT

How do I calculate work?

Use the equation below to co

Work = force

 $W = f \times d$

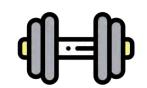
4. After you are done at the gym, you need to put away all of your weights. The force needed is 50N and the weights move

3.5 metres. How much work is needed to move the weights?

UNDERSTANDING AND CALCULATING WORK

EXERCISE ACTIVITY: CALCULATING FORCE AND WORK

Exercise 2 Dumbbell Row: Stand with your feet hip distance apart and a soft knee. Hinge at the hip and begin with your arm hanging (dumbbell in hand). Pull the dumbbell to your hip, while maintaining the same hinged hip position. This exercise targets your trapezius muscle in your back.



your teacher assigns you? nmunicate how much work mes the distance.

stands for work. measured th is measured in Newtons es(m)

Calculate the work. But first, you need the force.

Ins (N) and metres (m) are **UNDERSTANDING** ng 20kg would need & CALCULATING or each W = fWORK W =W =__

> Fill in the second blank with the measurement that the weight travels when you complete a row

117.6J of work.

LESSON 8 & 9



6 SIMPLE MACHINES

Inclined Plane

What are Simple Machines?

Simple machines were created to help make everyday tasks ensien and more efficient for peop that, when combined, use le simple machines everyday. challenging life would be wit get into buildings, wheels for things together. There are s get the same work done, w

inclined plane, pulley, wedge,

Load

6 SIMPLE MACHINES ALL AROUND US

Instructions: Try to write a definition for each simple machine based on your current knowledge. After, look around the classroom or think of examples for each.

Simple Machine	Definition	Example
Lever		



THE 6 SIMPLE MACHINES

At the attended to the same		
What are Levers		
Levers are everywhere: in p		
equipment, etc. Levers are d	Wedge	
This particular point is called		
makes it easy to move heav		
there is effort and load on		
there is effort exerted on a	Screw	
end. In this example, the fu		
if the fulcrum is placed clos		
required to move the load.		
- Comment of the control of the cont	Wheel and Axle	
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MECHANICAL ADVANTAGE



PRACTICE WITH MECHANICAL ADVANTAGE

Let's practice

- 1. I apply 350N of force to push a cart full of computer paper up a ramp
 - to go into the of paper to t
 - a) What is
 - b) What ty

MECHANICAL ADVANTAGE

our lives easier by olish work. The ective the

I and there are several change the direction of er to push than to pull to it. Another reason for Here, you do not want the hallenge your muscles. bugh, it means that input it does not necessarily

Practice Questions

- 2. I apply a force of 400N to my lacrosse stick to cause the ball to travel quickly and as far as possible to get as close to the goal as possible. Because the lacrosse ball does not weigh much, my resulting force is 200N.
 - a) What is the mechanical advantage of the lacrosse stick?
 - b) Was the result surprising? What possible explanation could you give equired) to do the work for the mechanical advantage?

han 1, it is actually more lut it. In these situations, for speed (or for another rosse or hockey would be the stick as a lever).

LESSON 10 & 11



SYSTEMS IN ACTION QUIZ #2

Name: ______

Complete the following ques

Imagine your friend asks of cafeteria table. They pass if 2.5 metres. How much work (2.5 marks)

SYSTEMS IN ACTION QUIZ #2

Name: _____

Complete the following questions by showing all of your work.

Tmagine your friend asks you to pass a ketchup bottle at the school

ance of bottle? Use

SYSTEMS IN ACTION QUIZ #2 (2 OPTIONS)

ENERGY IN MECHANICAL SYSTEMS

How to make these systems more efficient?

Efficiency is all about making a system more useful, and especially **ENERGY IN MECHANICAL SYSTEMS** erate the machine. If you lgoal of the car is for a s the engine and moves nore efficient than walking. How do mechanical cause of the metal rubbing systems produce will occur, which will make heat? What is friction? How doe ENERGY IN Pro MECHANICAL In wha SYSTEMS cient is by making you require oil, since med , there are not any syste use friction and produce efficient? fficient since they reduce Think of another example of a mechanical system that produces heat due to friction.

/!

LESSON 12 & 13



IMPROVED PRODUCTIVITY IN SYSTEMS



ROBOTIC SYSTEMS IN INDUSTRIES

Robotic (or automated) systems are often more efficient, quicker, and stronger than humans. This helps boost productivity in various industries. Watch the video Robot-assisted packaging: 30% more productivity to learn more about how robotic systems improve productivity

How have robotic systems helped this industry?

What is productivity?

Productivity in science refer to complete a task in a cert productive you are the less given task. PRODUCTIVITY

How have some

Industries are productive and save time, mor boosted their is automated sys

manual labour, are often m unlike human employees. Ro accomplish tasks much quic example, a robotic system r and place it in a different lo ease. This particular task we of energy to do without the

INDUSTRIES

WITH SYSTEMS

IN VARIOUS

How does the robotic system work within this particular industry?

WHY DO CELL PHONES EVOLVE?

THE EVOLUTION OF CELL PHONES

In the mind map below, think about reasons why cell phones may have evolved over the last 50 years.

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nes, often refers to a ver time. This development ds and wants of people. nore complex to match how

evolve for many reasons, s. People are social beings

> eloped ple can

lone in

le are "on the go," and use food and groceries, and

nly extended to size. d, smart phones can easily become very portable.

THE EVOLUTION OF CELL PHONES

LESSON 13 OPTIONAL INQUIRY

What is the name

of the system?

EVOLUTION OF A SYSTEM

Instructions: Through a presentation, you are asked to choose a system and research the social factors that have influenced its evolution.



Presentation Requirements:

- 1. Name and picture of the system.
- 2. An explanation of how the system was originally used, how it evolved, and how people could adapt to make the system evolve again.
- 3. A description
 - How has system
 - · Why th
- 4. Source list or books use
- The present informative.

EVOLUTION OF A SYSTEM OPTIONAL INQUIRY

Possible Topics (but not limited to these):

- Recycling centres
- Elevators
- Roller coasters
- Air conditioning units
- Changing traditional work hours
- Hospitals
- Health care systems
- Bikes

What factors drove	
the system to	
evolve?	
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EVOLUTION OF A SYSTEM

LESSON 14 & 15



LESSON #14

and exert energy.

Systems in

Lesson Overview:

Students will demonstrate # Complete the following True/False questions on systems in action past few lessons with a quiz by circling the correct answer.

Materials Needed:

Photocopy	а	class	set	or

•							
Г	1	Dla	otoc	2010		ماہ	
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Pho	тосор	y a	class	se	ror
اـ :۱۸	النمنا	C.,_	_	i	Λ مــــ:

SYSTEMS IN ACTION MID-UNIT QUIZ

1. Work occurs when force can move an object

2 The equation for work is colculated by dividing

energy well, it is considered efficient.

6. Inclined planes and wedges hold a similar function. T

MID-UNIT SYSTEMS IN ACTION QUIZ

- 7. Mechanical advantage describes how much easier work becomes with simple machines.
- 8. The equation for mechanical advantage uses force T in divided by the force out.
- 9. When the mechanical advantage is 1, that means T the work was easier.
- 10. Oils help reduce friction in vehicles.

/10

PULLEY EXPERIMENT

Task: You are going to conduct an experiment

PULLEY EXPERIMENT

PULLEY

EXPERIMENT





s guestion on the science lab

ment. If you do not have a using a bar. a bar (or metre stick) in the

p in between the chairs that

a 11b weight or a textbook) and ahted item.

system, you are going to pull load.

ervations under the

with two pulleys or two pieces he extra pulleys or rope is our observations and findings

d continue to record your

outline your experience.

LESSON 16 & 17



RUBE GOLDBERG CREATION LAB

Task: Your task is to use your knowledge of simple machines and systems to creamachine that performs a func-

RUBE GOLDBERG — CREATION LAB

Instructions:

- Decide on what task you war meet, with your Rube Goldb
- ☐ After, sketch your design or ☐ When you have a clear and
- necessary materials. You ca glue, rulers, Domino pieces,

purch home

☐ Once mach

proce

☐ When the g see if

to im □ After

the P

happen if you removed or c machine.

- ☐ When you complete the ma report.
- After the lab report is com presentation where you pres you used, the purpose of you difficulties that may have p process.

surprises while doing the lab?

RUBE

GOLDBERG

MACHINE LAB

Would you recommend this lab to future students?

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OWNER'S MANUALS

OWNER'S MANUAL REFLECTION



1. Which owner's manual was the most interesting to you? Why?



onsumers to be able to use they purchase it. The I contain most of the turning it on and off, to ing any potential problems.

ole, owner's rm. However.

ual virtually.

MANUAL EXPLORATION

OWNER'S

throughout the lesson?

pecific question is s problem, most presentatives that nowledge about the an issue that you may have. t a new gaming system eam directly. They can help a virtual online assistant hat—like feature.

log.com

LESSON 18 & 19



THE IMPACTS OF

NEW AND EVOLUTION CYCTEMS

Station #2

Explain your topic. What is the idea? What is the issue with the topic?

INQUIRY: THE IMPACTS OF NEW

make it

AND EXISTING SYSTEMS

Option 1

 Mass produced furnivs. Handcrafted furr

Syste

These enviro two o

econo

How does your topic influence the economy? Who benefits the most from the service? Where does the money go? Does it help the economy?

How does your topic influence the environment? Is it positive or negative? Explain with details from your research.

MEETING NEEDS WITH EXISTING SYSTEMS PERSPECTIVE ASSIGNMENT

MEETING NEEDS WITH EXISTING SYSTEMS

he audience.

dividual, society, and the

rtant to you. needs is more efficient. the websites, videos, or books

LCAC! 2	LEVELT
Researched with	
most details	Thoroughly
provided. More	researched
information is	details and
needed on	perspectives.
	ovided

What is the question discus

Which perspective are

you researching?

How does the indiv

Ohttp://www.2peasandadog.com

MEETINGS NEEDS WITH EXISTING SYSTEMS

on to detail nation was ed to the pic and hstrates an

l project

ows an

tensive

erstanding of All sources are

Most sources provided.

provided.

a.com

LESSON 20 & BONUS FILES

/20 UNIT TEST Multiple Choice Instructions: Set **UNIT TEST** 1. The _____ of a syste get its desired results. A) Purpose B) Input Short Answer Questions: Respond to the following questions in sentence C) Output D) Processes 14. Explain how the terms work, force, displacement, energy and efficiency SYSTEMS IN ACTION UNIT TEST D) Fulcrum 4. Simple machines allow us to required to do work. A) Energy B) Force C) Efficiency D) Friction 5. _____ occurs whe together. A) Heat B) Components C) Force D) Friction

BILL NYE — SIMPLE MACHINES ☐ Inclined plane ☐ Force ☐ Simple machines Direction ☐ Forces ☐ Chain ☐ Pitch ☐ Fffort ☐ Smaller ☐ Rod ☐ Lift ☐ Screw ☐ Fulcrum ☐ Size ☐ Levers ☐ Distance ☐ Heavy ☐ Work SUB PLANS OR UNIT REVIEW 4. Catapults and seesaws are examples of _____ because they can change the direction of 5. Wheels on bicycles are _____. The gears are wheels with teeth. The front and back are connected by a _____. The rider can put out less _____ for a longer _____.

BONUS FILES

SELF-D	RIVING CARS			ARTICLE QUES	STIONS /10
What is a Self—Driving Car? A self—driving car is a vehicle to can drive itself without any hur assistance.	Advantages of Self-Driving Cars	Disadvantages of Self-Driving Cars		KING QUESTION Pelow Meets Above	
Self-driving technology is alreadused in many vehicles, but full driverless cars are not widespr			Expe	ectations Expectations Expectations • • • • • • • • • • • • • • • • • • •	
Currently, some cars already he partial self—driving features. The are cars that can park themse keep you driving at one speed without your foot on the gas (cruise control) or brake automatically.		SUB PL OR	ANS	nicles a good idea? Explain your thinking.	
These cars have a level of self driving, but driverless cars, whe the car operates itself for you, still being developed.		UNIT RE	VIEW		
Today's models of driverless co are not fully autonomous. Some require the driver's hands to be the wheel to ensure they are r to take over in case of emerger					
Level Up Vehicles have different levels o self—driving, ranging from 0 to For a Level 0, all major systems car are controlled by humans. F Level 5, none are controlled by					
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LESSON FORMATS





✓ Individual & Whole Unit





✓ Google Slides

RESOURCE CAN BE USED IN-PERSON OR ONLINE