

LESSON PLAN

EVENT: Virtual Challenge GRADE: K-8

LESSON TITLE: Build a Better Pencil

GET YOURSELF READY		
Materials:	Your Preparation:	Agenda:
 Paper Pencil Unsharpened Peryou have one) Art supplies: tape clips, clay, pomporubber bands, pipcleaners, Styrofoaglueanything you need to build a be pencil! Website: Coca Col Journey (optiona https://www.cocacola.ie/stories/hisof-coca-cola-1886 	• Gather Materials acil (if , paper oms, ree am, ou etter a):	 Introduction Activity Submit idea
	GET YOUR STUDENTS READY	
something using a variety of	e given the opportunity to design and make of materials and simple tools. Using the pencil, e ideas of planning and evaluation in the context	Proving Behavior: Students will complete the design challenge by creating solutions to a problem using everyday tools and materials.
	CONTENT	
Activity Descrip	tion and Steps	
Introduction: Think a	Think about the following questions. Share with a friend your ideas	

CONTENT	
Activity	Description and Steps
Introduction:	Think about the following questions. Share with a friend your ideas.
Brainstorming	What is an invention?
	 How do people come up with new ideas for things to make or build?
	 Have you ever come up with a new idea or design?
	Did you know that many inventions that we love today were actually mistakes! That's
	right, people had ideas and when they designed and made them, they didn't turn out
	exactly as plannedbut rather than getting upset or frustrated, they were creative and
	found new uses for their product and these became just as well used and famous.

For example, Coca Cola, the soda, was not supposed to be a well loved soda. The inventor was a pharmacist trying to make a medicine... (Go to the Coca Cola History website: https://www.coca-cola.ie/stories/history-of-coca-cola-1886-1892 for the story.)

Activity: The Pencil Problem

Let's talk about the pencil. What is it? How is it used? Then ask what are some problems with the pencil?

Take a piece of paper and fold it half lengthwise. Use one side to write down things that you like or that work on the pencil. On the other side, write down a few problems with the pencil.

For today's challenge, you are going to need the following:

Paper or notebook for taking notes

Pen or pencil for writing

Pencil (unsharpened or sharpened) for designing

Art supplies: tape, paper clips, clay, pomp oms, rubber bands, pipe cleaners, Styrofoam, glue...

Today's Challenge:

Your job is to come up with a plan for solving your pencil problem. You can come up with a few ideas, but in the end, you will chose one of your ideas to design, build and submit.

Take about 10 minutes to write down some ideas, and the circle the one you like best.

Next, draw a few designs to show what your new and improved pencil might look like.

Then, using the materials you have at home build your better pencil. Don't be afraid to test your pencil as you design to see if it works the way you want it to. And, certainly make changes as you go.

Once you have your design, you can submit it to us to complete the Challenge.

YIP CHALLENGE SUBMISSION

TO SUBMIT YOUR DESIGN:

Take a photo, or scan and upload a picture of your drawing or design.

Email it to your teacher, or send it to us,

Email it to: hello@aas-world.org

We can't wait to see your awesome ideas!