







# Quick Start Guide To TinkerClass



TinkerClass is a Project-Based-Learning tool that guides students through four main activities: Listen, Wonder, Tinker, and Make. These four activities can be done sequentially and all together, independently as stand-alone assignments or in whatever combination supports your curriculum or the amount of time you have available.

**TINKER**  
**Class**

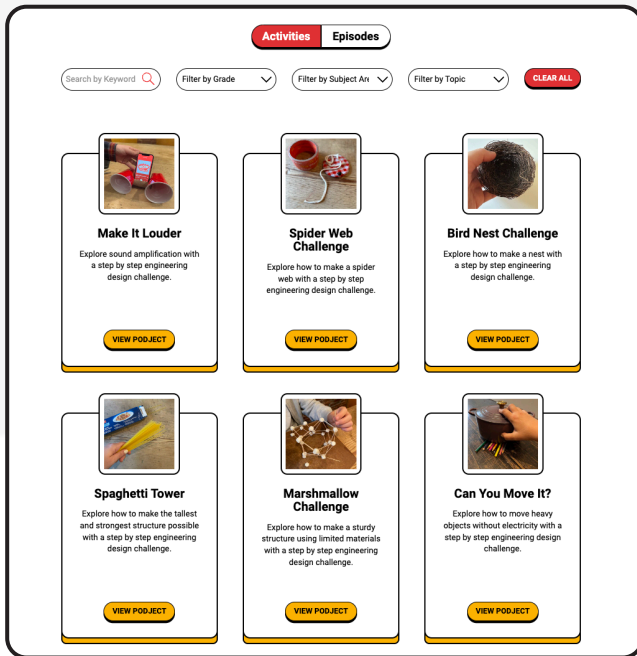
**Featured Project: Paper Cup Challenge**

			
<b>Listen</b>	<b>Wonder</b>	<b>Tinker</b>	<b>Make</b>
<b>Let's Flamingle!</b> How in the world can studying flamingos help humans? And what in YOUR world is wowing you?	What made you say WOW? What do you WONDER?	What "Wonder" would make a great project idea?	<b>Paper Cup Challenge</b> Explore pressure with a step by step engineering design challenge.
<a href="#">GET STARTED</a>	<a href="#">GET STARTED</a>	<a href="#">GET STARTED</a>	<a href="#">GET STARTED</a>

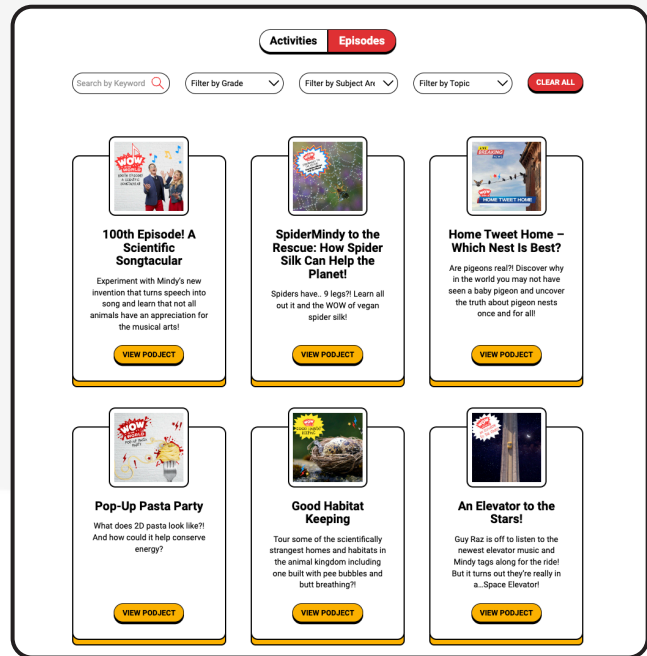
Getting started is easy. We recommend that you begin by previewing our featured project and the four phases of TinkerClass from the top of the All Projects page.



Browse and preview all of our podjects based on the activities themselves or the affiliated episodes by selecting Activities or Episodes on the toggle above the library. Then click **VIEW PODJECT** to preview and/or assign a specific selection via Google Classroom.

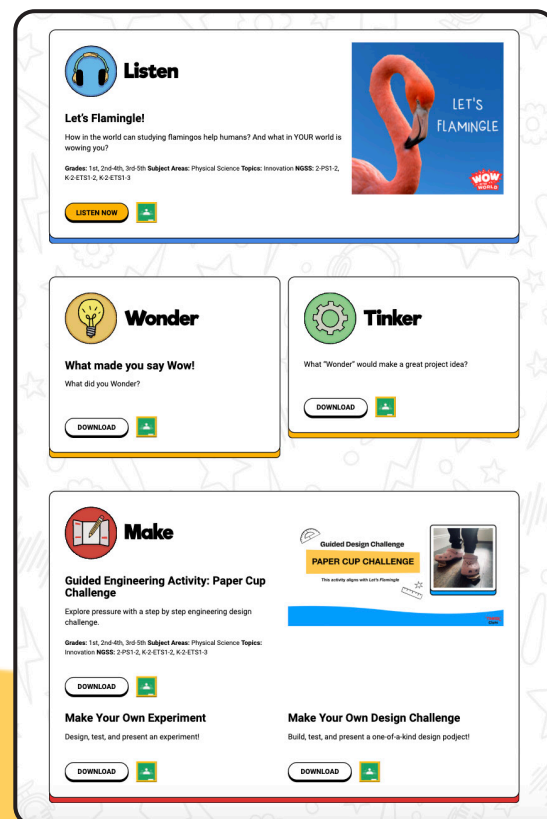


Activities Page



Episodes Page

From here you can download, or assign via Google Classroom, all the different parts of TinkerClass. Assign as few or as many as you like.





# Listen

Listening is an important skill children need to develop. With **LISTEN** teachers assign specific episodes from our library of engaging content.

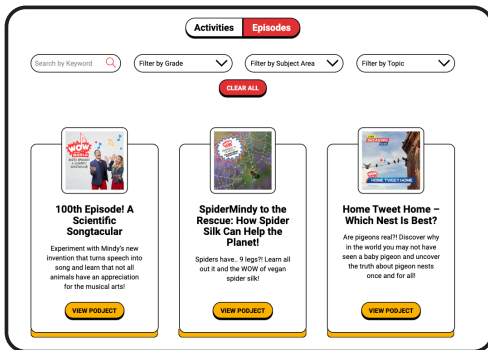
## SET UP:



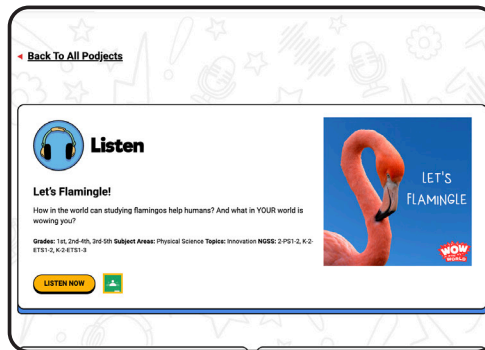
This activity was intended to be assigned as independent work or can be managed by a teacher for whole class listening or use with small groups.

## WOW-TO:

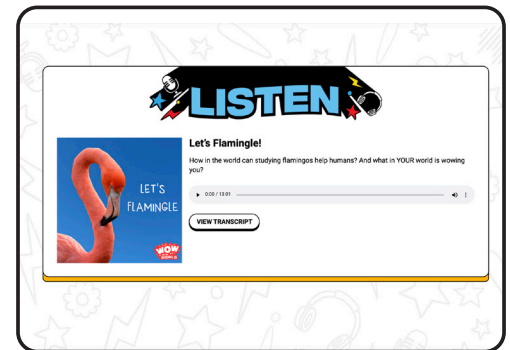
From the **Explore All Podjects** page, you can search episodes based on subject area, curriculum topic or Next Generation Science Standards (NGSS). You can also preview any episode from here.



*TinkerClass Episode Library*



*Listen Block*



*Episode Player*

Once you have selected an episode, click the **Listen Now** button below it, and it will take you to the Individual Episode page where you can listen and assign it via Google Classroom.



# Wonder

Reflection is key to active listening. With **WONDER**, students reflect on what they heard and record what made them say, “Wow!” Then they brainstorm what they are still wondering about. This is the creative innovation step. We recommend pairing **WONDER** with any episode in our library.



## SET UP:

This activity is intended to be assigned as independent work. However, it can be modified to accommodate small groups or whole class work.

## WOW-TO:

Preview and/or assign **WONDER** by selecting it from an Individual Podject page.



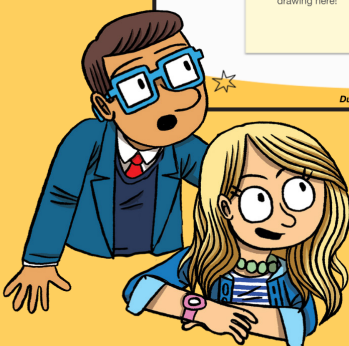
Wonder Title Slide



Wows Slide



Wonders Slide





# Tinker

This step is a great companion to **WONDER** as it guides students to think critically about their initial ideas and work collaboratively toward choosing one “**BIG WONDER**” to investigate. Big Wonders should be ideas they can successfully investigate with an experiment or engineering design challenge. This step supports Collaboration and Communication.

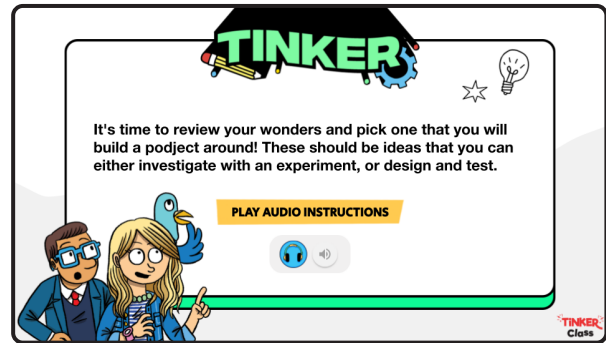
## SET UP:



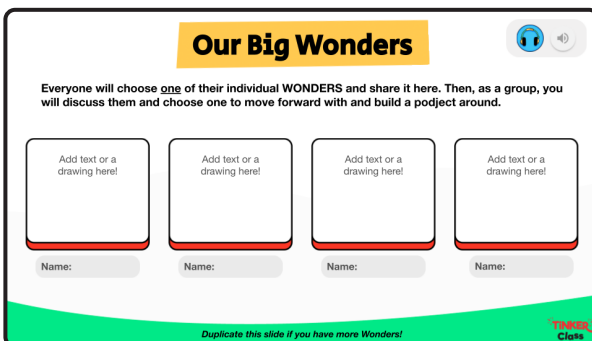
This activity is intended to be assigned as a collaborative, small group activity. However, it can also be assigned as individual or whole class work.

## WOW-TO:

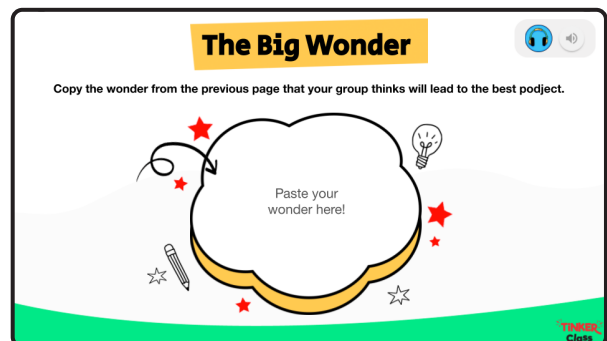
Preview and/or assign **TINKER** by selecting it from an Individual Podject page.



*Tinker Title Slide*



*Our Big Wonders Slide*



*The Big Wonder Slide*



# Make

Here students are guided through an experiment or an engineering design activity. **MAKE** is a place to actively investigate a real-world question, challenge or problem **AND** a place to record what happens during the experimentation or design process.

## SET UP:

This activity is intended to be assigned as independent work or for work in pairs or small groups.

## WOW-TO:

Preview and/or assign **MAKE** by selecting it from an Individual Podject page where there are three options to choose from.

**Make**

**Guided Experiment: Celery Science**  
Explore absorption with a step by step experiment.  
Grades: 1st, 2nd-4th, 3rd-5th Subject Areas: Physical Science Topics: Plants

**CELERY SCIENCE**  
This activity pairs with Pepper Family Tree

**Make Your Own Experiment**  
Design, test, and present an experiment!

**Make Your Own Design Challenge**  
Build, test, and present a one-of-a-kind design podject!

DOWNLOAD [User Icon]

DOWNLOAD [User Icon]

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*Make Block*



# Make

MAKE supports Critical Thinking, Creative Innovation, Collaborating and Communicating.

There are two discrete **MAKE** pathways, Guided and Make-Your-Own, to support your needs as a teacher and the needs of your students. With both pathways you and your students can customize the podject as much or as little as you want!

*Guided Design Challenge*

**Guided Activities** are predesigned experiments and engineering design activities broken down step by step.

*Make Your Own Design Challenge*

**Make-Your-Own Activities** lay out the general framework for planning and conducting an experiment or building and then testing an engineering challenge but let the user come up with the content.