

# 3Doodler<sup>®</sup> EDU

## Design Challenge

# Design Your Own Design Challenge

## Participant's Guide

### The Challenge

A statement of what is expected of the participants  
This challenge will...

## 🕒 Challenge Background

📝 Notes

**💡 Challenge Tip -or- Take It Further**  
Provide a tip or suggestion for the participants to consider while doing the challenge. This can help to focus the participants' attention, or to take the challenge to a whole new level (during or after class).

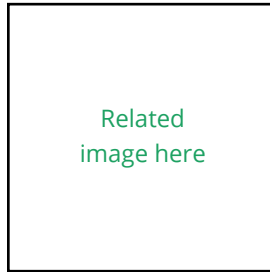


Fig.1

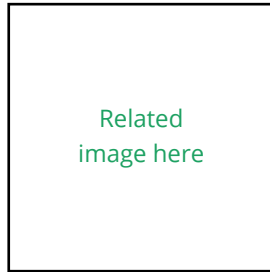


Fig.2

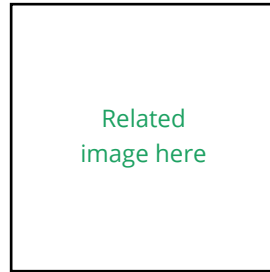
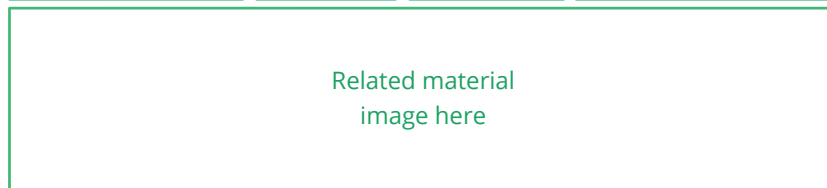


Fig.3

Help provide the challenge with an historical, cultural or scientific context and ask questions for the challengers to consider. Supply at least two example images from the context so that participants can get inspired and understand the direction of the challenge.

## ✂️ Materials & Tools

**① Before You Start Doodling**  
We recommend using a DoodlePad or clear tape placed over paper as a foundation to keep your Doodles in place and so that you can peel them off with ease.



- A.** 3Doodler Pens and Plastic Strands of various colors (one per student, or have students work in pairs or small groups)
- B.** Tools (from your 3Doodler box) plus needle-nose pliers or scissors for snipping plastic ends
- C.** Clear plastic tape or DoodlePad for Doodling foundation
- D.** Paper for Doodling foundation and extra sketching/note-taking space
- E.** Drawing utensils (markers, pens or pencils)
- F.** Camera or video recording device to document the Challenge and results
- G.**
- H.**

## ☰ Challenge Organization

📝 Notes

### 📷 Challenge Documentation

Take photos & videos of your process using a camera. Document what to do and what not to do. Share your experience with the online community using #3DoodlerEDU!

Challenges are organized into 50-minute periods so they can fit into a traditional classroom structure, or be combined into a single workshop with breaks in between activities. This Challenge is designed to have participants work in short sprints to quickly explore the concepts.

### 🖥️ Class 1:

⌚ Total Time: 50 min.

Figure out how many class periods you will need to complete your challenge. Challenges can be done during classroom periods, during a longer afterschool session or for a day-long workshop. Customize your time as you need it. Keep in mind that more than one challenge activity can happen during the day. Include 10-15 minutes for presentation and reflection at the end of your challenge. See the list below for the kinds of activities to include in your challenge.

### 🔍 Investigate Activity (xx min.):

(Ask challengers to dig deeper into the challenge's ideas, history and context.)

### 💡 Imagine Activity (xx min.):

(Ask challengers to come up with ideas, inspirations or ways of seeing the problem.)

### 📐 Design & Plan Activity (xx min.):

(Ask challengers to provide drawings, models and a plan of attack.)

### 🏗️ Build Activity (xx min.):

(Provide directions or guidelines for building and testing the product.)

### 📄 Documentation Activity (xx min.):

(Ask challengers to video record or take pictures of the challenge process.)

### 🗣️ Present/Reflect Activity (xx min.):

(Discuss how the challenge will be evaluated and presented.)

### 🔄 Re-iterate Activity (xx min.):

(Ask challengers how they can improve their product.)

Lined area for taking notes.







# Class 5: Present & Evaluate

🕒 Total Time: 50 min.

 Notes

Lined area for taking notes during the class.



## 🔗 More Information:

For More Information on \_\_\_\_\_ go to:

- Include websites and videos for participants to reference to generate ideas or understand a specific technique.

### 🖼️ Images:

Cover Page: website

Fig. 1: website

Fig. 2: website

Fig. 3: website