

3Doodler[®] EDU

Design Challenge

Tales in the Shadows

Facilitator's Guide

🚩 The Challenge

Using the 3Doodler and plastic strands, design and build a shadow puppet theatre to tell a story in a unique way.

👁️ Overview

⌚ Total Time: 150 minutes (3 Class Periods)

This Challenge provides for both a cultural and narrative investigation. This challenge can be used to apply knowledge after a cultural study has been completed, or as a way to spark a deeper investigation into narrative art forms.

⌚ Challenge Background

💡 Take It Further

Create a puppet theatre using rice paper and a large cardboard box that can be propped on a table or hung from the ceiling.



Fig 1



Fig 2

Shadow puppetry is said to have been created in China over 2,000 years ago during the reign of Emperor Han Wudi. Others attribute its origins to Egypt or India. It became mainstream as an artform about around 1,000 A.C.E., seen in roadside attractions and amongst royalty in Greece, Thailand, Turkey and Cambodia. The artform lives today as a way to tell folktales, new and old, from all around the world.

✂ Materials & Tools

🕒 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. 30 x 24" of white tissue and cardboard boxes to make theatre

H. Light source (clear nightlight bulb and socket or slide projector)

📅 Challenge Organization

📷 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!

The Challenge is organized into three 50-minute class periods. Use an existing folk tale, nursery rhyme, or short story or create your own story to use as the basis for the Challenge. Separate out the characters from the scenery and determine how many you will need of each.

🖥️ Class 1: Investigate & Design

🕒 Total Time: 50 min.

🔍 Investigate (🕒 25 min.)

Step 1: In your teams, investigate how folk tales, nursery rhymes and historical events have been told using shadow puppets in places like China, India and Indonesia.

As you investigate the history of shadow puppetry, answer the following questions:

- Why do you think shadow puppetry has survived since ancient times?
- What are the components of making a shadow puppet theatre?
- How are the moving parts of the puppets made?
- What kinds of stories can be told through shadow puppetry?

Step 2: Next, select a work of fiction or historical event that you have recently studied. Write down the answers to the following questions:

- Who are the characters?
- Where does it take place?

✍️ Design (🕒 25 min.)

Step 1: Based on your research of shadow puppets and the story you've selected, draw out your characters, scenery and size of the puppet theatre you will create in the next class. Decide which materials you will need to start building the theatre. Consider the following questions:

- Which parts need to be moving?
- How you will connect them?
- How could this be made into a shadow puppet show?
- What else would you need?

📝 Facilitator's Notes

In Class 1, groups can break up into teams of two or four and can share their knowledge of stories from other cultures. You may want to have participants prepare for this challenge ahead of time by reviewing the website provided in the References section or through sources that you assign.

✂️ Remember to Snip Those Ends

We recommend pliers or scissors for snipping plastic ends. Make sure to keep your plastic ends clean to prevent clogs and jams. Snip plastic after removing it from the 3Doodler pen to make sure it's clean for the next time.

Class 2: Plan & Build

⌚ Total Time: 50 min.

🔧 Plan & Build (⌚ 50 min.)

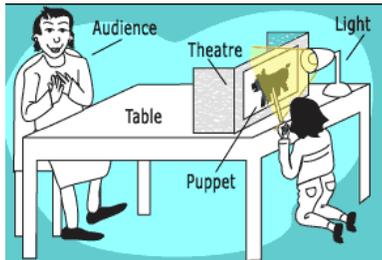


Fig 3

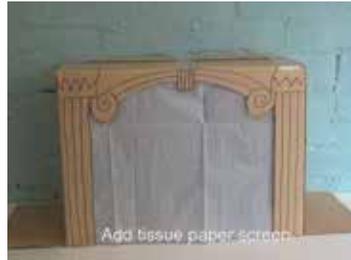


Fig 4

Step 1: Decide which team member will work on which parts of the story and the puppet theatre. Use the drawings you made of the characters and scenery and begin Doodling them. Make sure that the puppets and scenery will fit with the size of the theatre you create. The smaller the theatre, the smaller and faster the characters can be made.

📝 Facilitator's Notes

In Class 2, ask participants how they will assign various tasks. Make sure that all participants get a chance to use the 3Doodler pen to create a character or piece of the scene. To simplify the creation of the puppet theatre, have each team offer a team member to help build one theatre that will accommodate all of the stories with interchangeable scenery. To expedite things, the facilitator can create the theatre and provide size requirements for the puppets.

Class 3: Prepare, Perform & Reflect

⌚ Total Time: 50 min.

📄 Prepare (⌚ 15 min.)

Step 1: Prepare a script for your play based on the folktale you selected. Use a storyboard to help with organizing the progression of the story or write down the story in parts. Rehearse and change the story as needed.

📝 Facilitator's Notes

In Class 3, help teams to manage their time as laid out in the Challenge. Make it clear to each group that they will provide a 3-5 minute performance of their play and will discuss the storytelling and making process. Make some popcorn to share while watching the performances!

Step 2: Sign up on a list for the order of the performances.

🎭 Perform (⌚ 25 min-5 minutes for each group)

Perform your puppet play to the group.

🧠 Reflect (⌚ 10 min.)

Discuss as a larger group the process of creating the characters and scenery of your folktale. Use these questions to help guide the discussion:

- How did the design of the characters help with telling the story?
- Did it matter if different colors were used?
- How were movable parts created?
- How did this process help to understand the folk tale's culture of origin?

🔗 More Information:

For further information and inspiration about the origins of shadow puppetry, visit:

- <http://www.chineseshadowpuppetry.com/#!history/cjg9>
- <http://worldartswest.org/main/discipline.asp?i=10>
- <http://goo.gl/SJ3JCC>

🖼 Images:

Cover Page: <http://goo.gl/OebJdR>

Fig. 1: http://images.travelpod.com/tw_slides/ta00/b55/722/shadow-puppets-phnom-penh.jpg

Fig. 2: <http://goo.gl/6cXFRh>

Fig. 3: http://www.abc.net.au/creaturefeatures/img/make/sp_setup.gif

Fig. 4: <https://goo.gl/SOZKl8>