

DESTINATION
IMAGINATION®

Global Finals Tournament

Knoxville, TN
May 24 – 27, 2017

What is Destination Imagination?

Destination Imagination is a hands-on system of learning that fosters students'

- ❖ Creativity
- ❖ Courage
- ❖ Curiosity

While determining a solution to a central challenge students learn

- ❖ Creativity
- ❖ Patience
- ❖ Flexibility
- ❖ Persistence
- ❖ Ethics
- ❖ Respect for others and their ideas
- ❖ Collaborative problem solving skills

Who are The 7 Fireball Winners?



Katie Phipps, Cassidy Astorino, Yerin Kim, Anika Karre, Aashi Gupta,
Varsha Swaminathan, Nidhi Vidyaprakash

Central Challenges

At the beginning of each season, each team chooses a central challenge from the following options:

- ❖ Scientific
- ❖ Technical
- ❖ Engineering
- ❖ Fine Arts
- ❖ Improvisational
- ❖ Service Learning



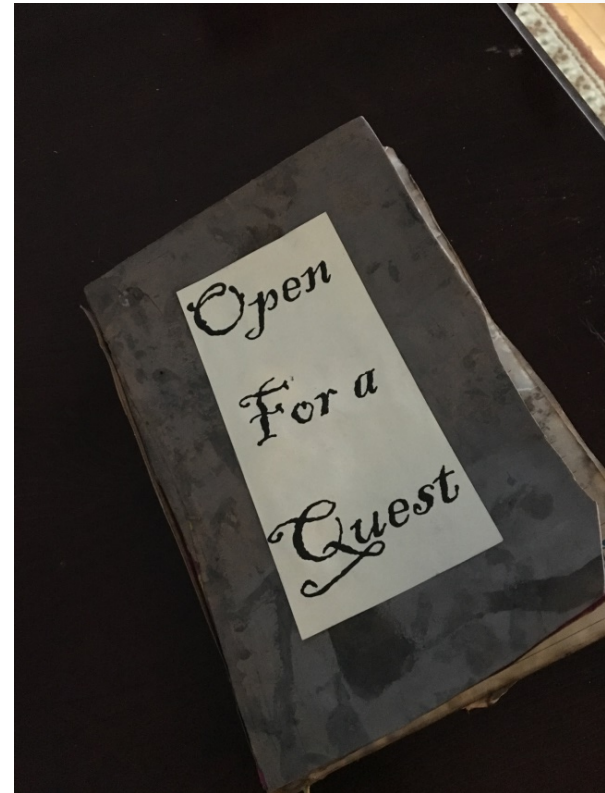
Central Challenge Solution

- ❖ Students are tasked with a central challenge that they must solve and then create an 8-minute skit to present their solutions to the challenge.
- ❖ Per Destination Imagination rules, the solutions and skit along with all items related to them must be imagined and created by the students.



Scientific Challenge

- ❖ Create and present a story about a secret mission.
- ❖ Research and apply methods from cryptography and steganography to reveal secret messages.
- ❖ Design and create a gadget that appears to be an everyday item.
- ❖ Create and integrate a disguised character into the story.



Challenge Solutions



The team wrote a skit about a girl named Ellie who discovers a secret diary hidden in the wall of her new home. This diary leads her to a quest to change the course of history. After transporting back in time to the deck of a large ship, Ellie soon

realizes that she is on the Titanic the day before it sank. She now must navigate between the ship's captain, telegraph operator, lookouts and a mystery character to make sure that they avoid the famous iceberg that sank the ship.

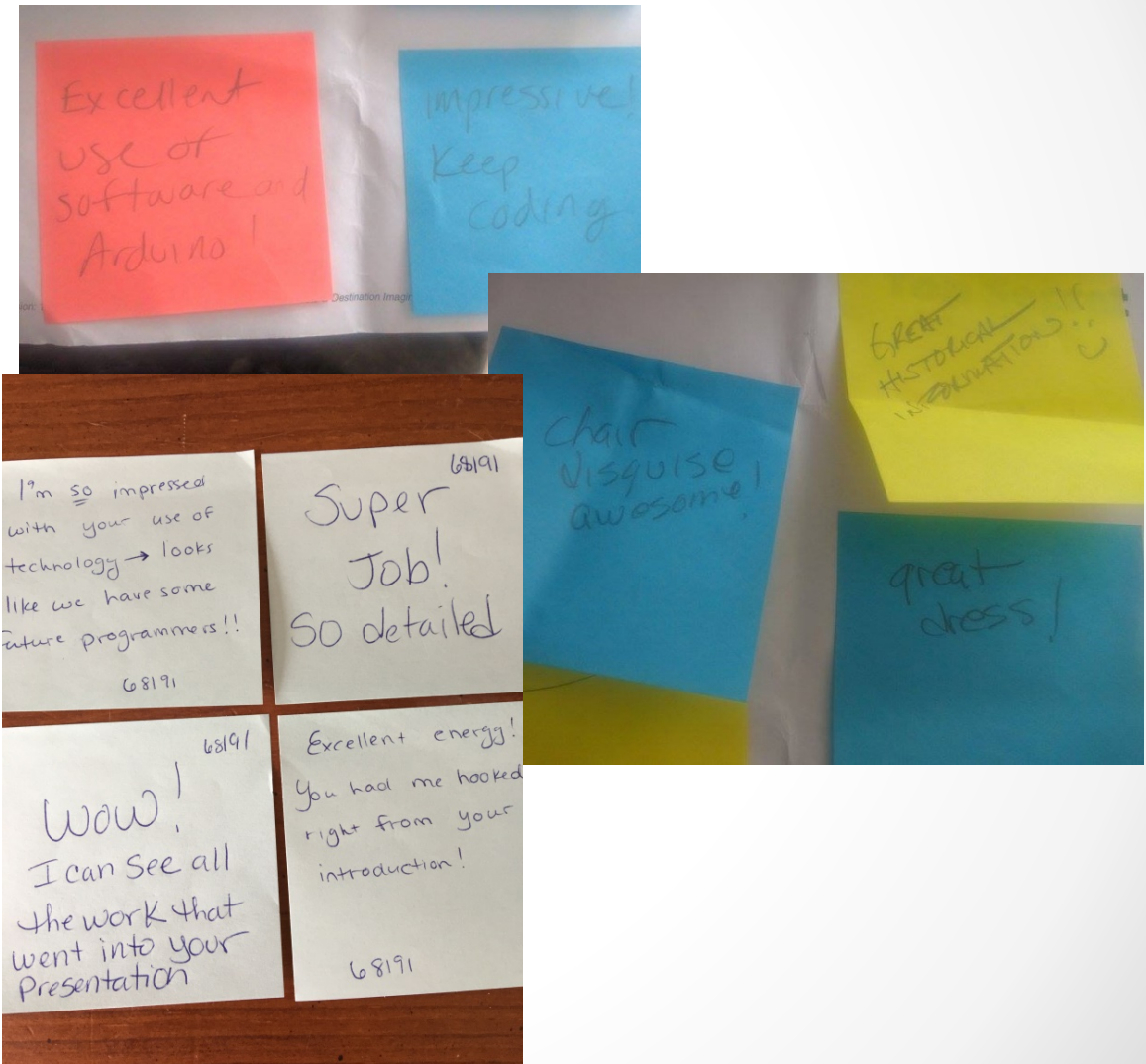
Challenge Solutions

While solving their challenge the team learned the following:

- ❖ Various cryptography and steganography algorithms for developing their secret code
- ❖ Programming using the Swift Playground app for encrypting and decrypting a word during their skit.
- ❖ How to build a sonar device to look like binoculars using an arduino, breadboard and ultrasonic sensor.
- ❖ The process of creating audio and image steganography to conceal a secret message in audio and image.

Regional and State Tournament Results

- ❖ The team came in 2nd place in both tournaments.
- ❖ Due to the number of teams competing in their category, the 2nd place finish advanced them to the state tournament and now the global finals.



Global Finals 2017

- ❖ May 24-27, 2017 in Knoxville, TN
- ❖ Attendees include over 8,000 students representing over 15 different countries.
- ❖ The team will be able to interact with teams from across the globe through a variety of events and educational seminars that will be held over this 4-day event.
- ❖ All teams are welcome to observe other teams' presentations on their challenge solutions.

Getting to Globals

The total cost for our team to travel to the Global Finals is approximately \$10,000. This cost includes travel, accommodations and food for 7 team members, 2 managers and 2 chaperones.

The team is working on various fundraising channels to defer the cost of their trip:

- ❖ Corporate donations
- ❖ Donations from friends and family



Thank You!

The 7 Fireball Winners appreciate
the support of the Shrewsbury
School Committee.

