NASA International Space Apps Challenge 2019 UBE

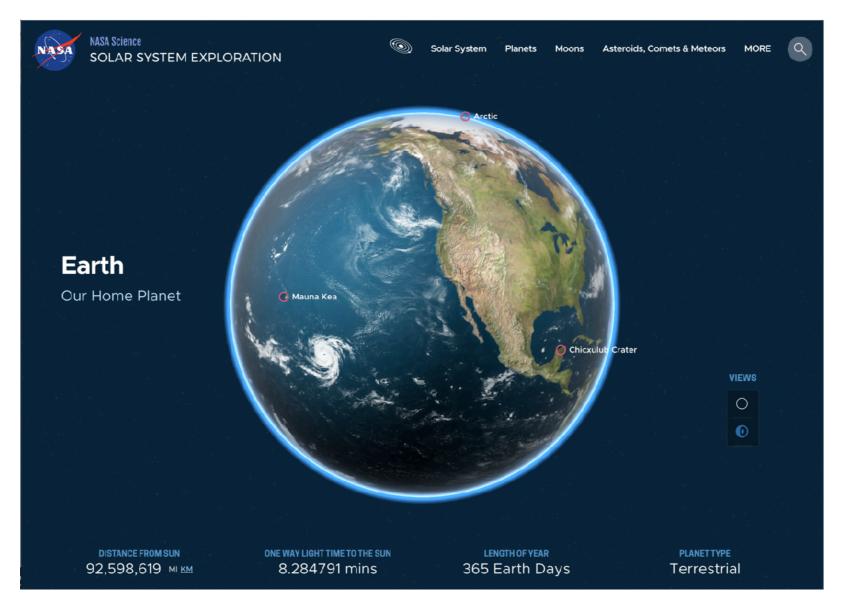
"Color your Planet"



Team: Astroid Dreamers

"To know the universe is to know ourselves"

The changing earth. It is part of the universe. Even if we understand it, we feel a little distant ...



[Source] https://solarsystem.nasa.gov/planets/earth/overview/

"Emotion" is the common language across countries and generations



It is important to bring out active curiosity from **positive emotions······**

..... by Prototyping!



Bring out Curiosity

The core idea is "Everyone" can imagine the original planet

FACT FUN







physical matrix of planetary colors and phenomenon

- · Characteristic color of planets
- Astronomical phenomena in the solar system

Mix of electronic and paper craft

- · Items you can buy at a general store
 - ex) Target, 100yen Store

Details of "Color your Planet"

Concept

- Let's make a new family of planets in the solar system

<u>Items offered at workshops, etc.</u>

- Physical matrix for each planet (material collection and function table)

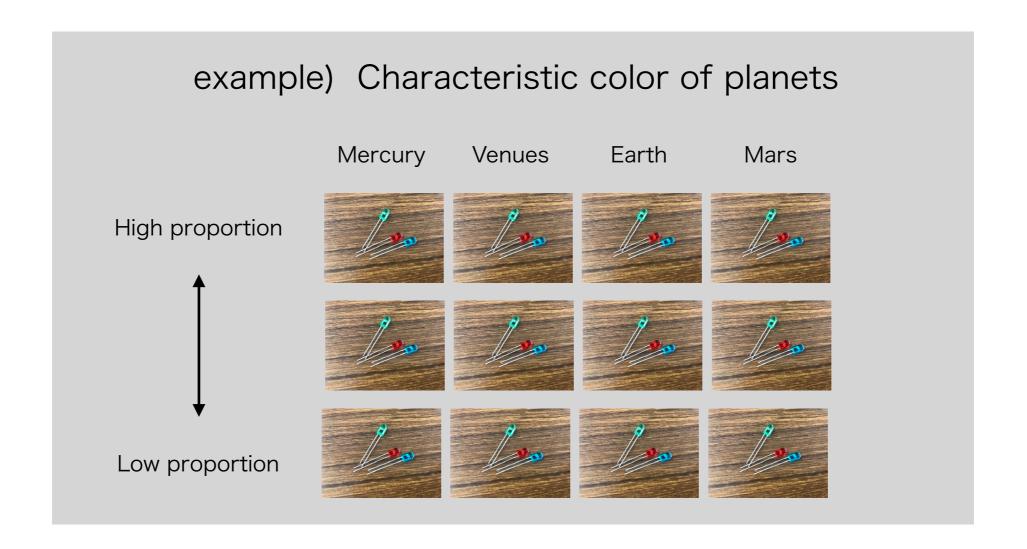
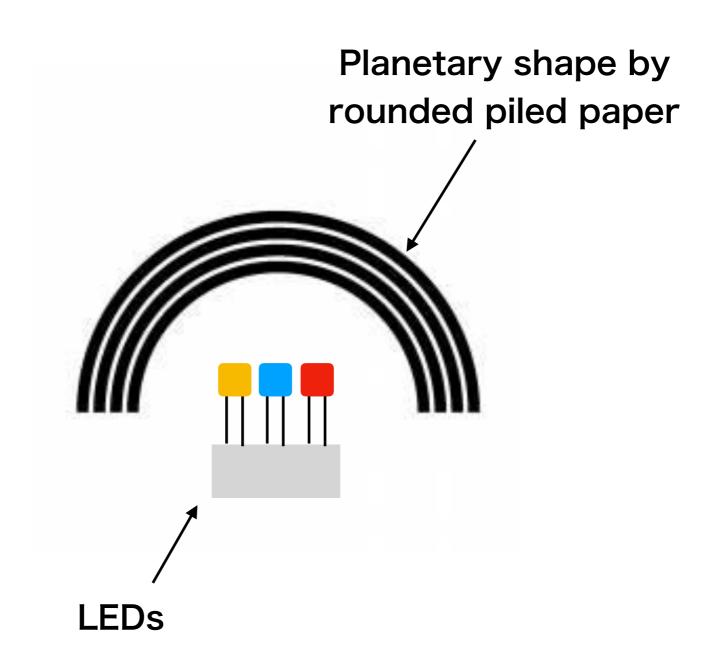


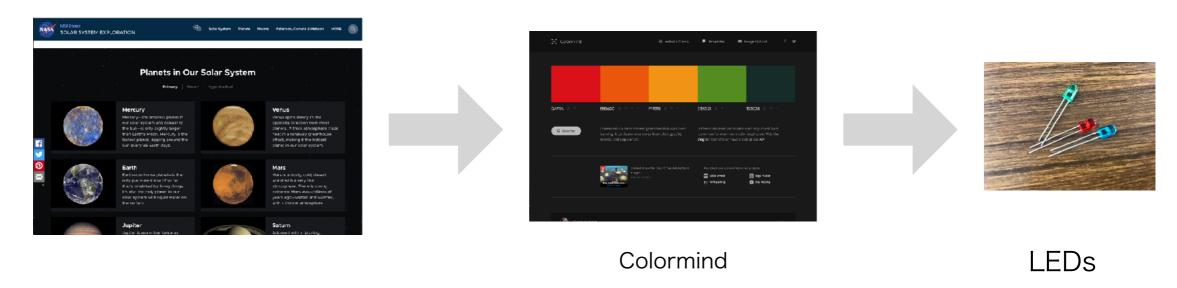
Image of how to create a planet



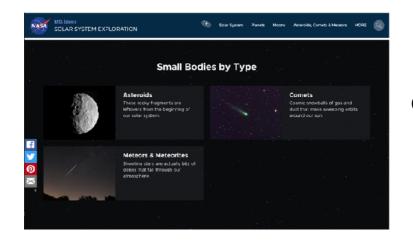
Physical Matrix

Use NASA Solar System Exploration data to create your own matrix

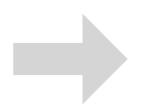
(1) Characteristic color of planets

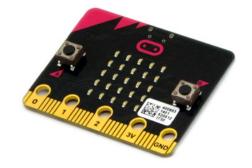


(2) Astronomical phenomena in the solar system



ex) Satellite "Enceradus" The light spills violently

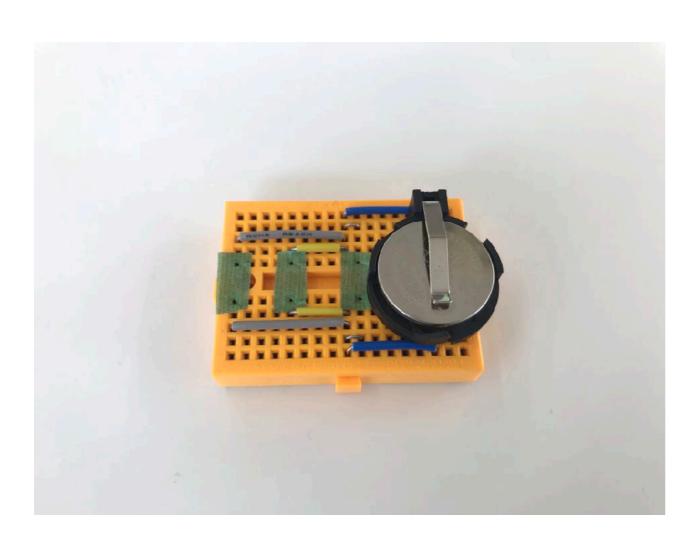




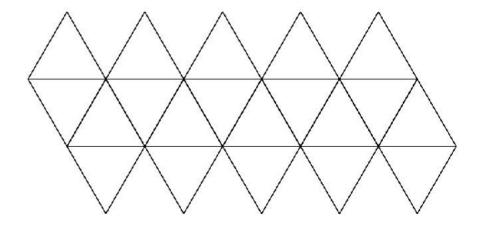
Color changes due to vibration, rotation, etc.

Simplifies prototyping

Easy kit without soldering



Paper craft data





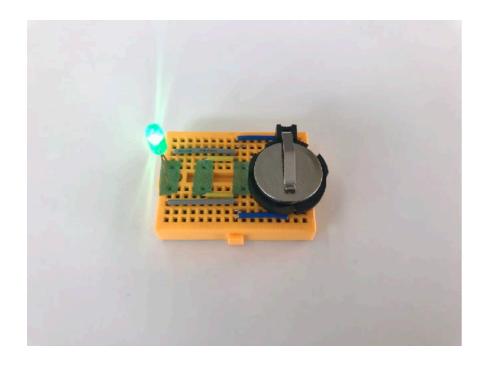
Any ideas are welcome!

It may be fun to shine stones of materials related to the universe.



Future Plan

Workshop with after school



Distribution of Physical Matrix

