

*SCIENCE 7-Period 2*  
**Engineering, Sustainable Emoji Design Challenge**  
Scheduled to be taught on 11/18 11/19 11/20  
Created by Kiett, Portia

**21st Century Skills**

\*Communication and Collaboration  
\*Creativity and Innovation

**Interdisciplinary Connections**

Social Studies, Environmental STEM

**Technology Integration**

chromebook; Cricut; Heat Press

**Equipment Needed**

chromebook, cricut, heat press, repurposed clothing or classroom item, vinyl

**Goals and Objectives**

Students will create an emoji or logo to bring awareness to one of the 10 R's of Sustainability. Groups will use a repurposed item of clothing or a school supply to create their design in Cricut Design Space and make an adhesive vinyl object or iron-on vinyl project. The project will be shared via TV Production as an announcement and digital newspaper article.

MS-ESS3-1  
MS-ETS 1-1  
MS-ETS 1-2

DOK: 3 and 4

Mastery: 84% on the Engineering Design Challenge.

**Learning Activities or Instructional Strategies**

Explore the steps in the design process used to create new emojis which people use worldwide to communicate.  
Students will review the 10 R's of sustainability.  
Select 1 R and create an Emoji design to bring awareness.  
Design the emoji using the engineering and design process.  
Use Cricut design studio to create an svg to be cut on adhesive and iron-on vinyl.  
Bring in a repurposed clothing item (t-shirt, sweatshirt, etc) or school item (pencil case, notebook, slingback)  
Record an advertisement with TV Production

**Differentiation**

small group  
teacher assistance  
online tutorials

Donated items will be available to use for this project.

**Resources Provided**

Cricut cutting machine  
vinyl  
heat press

### Assessments

Successful completion of the Engineering and design process  
Completed svg image (emoji)  
Repurposed item for display

### Standards

No standards have been assigned to this lesson.

### Lesson Documents

No documents have been uploaded to this lesson