



Feedback

K-12 STANDARDS-ALIGNED OPEN-SOURCE

Our community makes digital fabrication lessons for classrooms.

FIND OUT MORE



EDUCATION K-12: SCOPES-DF


Scaling a Community of Practice for Education in STEM through Digital Fabrication

SCOPES-DF COVID-19 ABOUT LESSONS COMMUNITY RESOURCES Q LOGIN / SIGN UP MAKE A LESSON PLAN

WELCOME TO OUR COMMUNITY!

Find and create lessons using digital fabrication tools.

JOIN OUR MAILING LIST



Fab I Can Statements

DESIGN	
Design.1	I can be responsible for various activities throughout a design process within a group with instructor guidance.
Design.2	I can participate in design reviews with prepared presentation materials as well as give and receive feedback from peers.
Design.3	I can initiate design processes to generate multiple solutions to problems I have framed for multiple stakeholders.
COMPUTER PROGRAMMING	
Programming.1	I understand the basic structure of a simple program and can modify values, variables, or other parameters to alter its output, function, or behavior.
Programming.2	I can create a program with more than one instruction.
Programming.3	I can create a program with multiple instructions and branching elements as well as reading / controlling inputs and outputs on a microcontroller board.
ELECTRONICS	
Electronics.1	I can follow instructions to build a simple electrical circuit using conductive material basic components and power.
Electronics.2	I can follow a schematic diagram and create a circuit including a microcontroller with electronic components.
Electronics.3	I can create my own schematic diagrams and use them to build electronic circuits including microcontrollers.


CULTURALLY RELEVANT

Celebrate Hispanic Heritage Month with your Classroom

By LizWhitewolf | October 1, 2021

From September 15 through October 15, the U.S. celebrates National Hispanic Heritage month. Recognize achievements and contributions from American Hispanic champions and learn more about the cultures and histories from around the globe with your students this month. The Smithsonian has curated a collection for teachers of resources to explore with students.

For more inspiration, explore the Fab Lat Kids, a network of 21 Fab Labs from 15 countries that support exploration of digital fabrication and education for students and families in these communities.



RELATED ARTICLES

IT'S A SEE YOU SOON!

A LETTER TO THE COMMUNITY

CELEBRATE HISPANIC HERITAGE MONTH WITH YOUR CLASSROOM

CULTURALLY RELEVANT TEACHING IN AAPI HERITAGE MONTH

There are also a wide variety of lessons from SCOPES-DF contributors that integrate digital design and fabrication with traditions, histories, and crafts from many of these countries. Check out these lessons below for inspiration to use in your classroom this month as you support student exploration of this important celebration.

Open source lesson repository with over 230 lessons,
+ Classroom resources, articles and educator reflections



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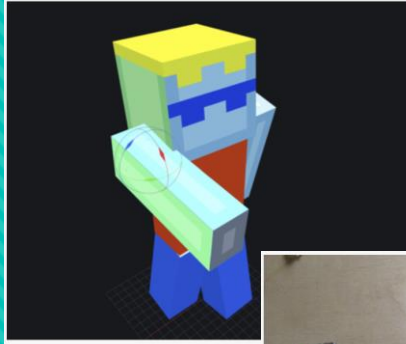
Scaling a Community of Practice for Education in STEM through Digital Fabrication



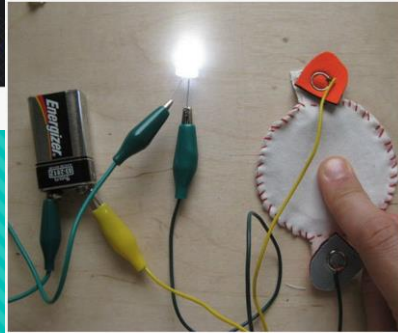
3D PRINT QATAR STADIUM



CREATE YOUR OWN WEBSITE



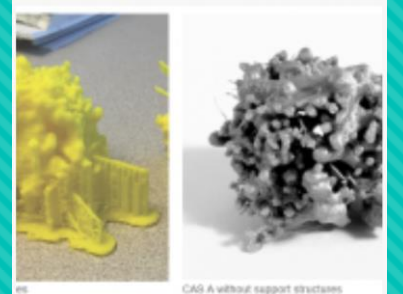
MINECRAFT CODING



FABRIC SENSOR: PRESSURE SENSOR



MR. ROGERS SWEATER KEYCHAIN



HOW TO HOLD A DEAD STAR IN YOUR HAND

وزارة الاتصالات وتكنولوجيا المعلومات
Ministry of Communications and Information Technology



ستوديو 5/6
STUDIO 5/6



Ilaria La Manna & Team at Studio 5/6 Qatar

Abigail Barton:
Pittsburgh's
Mr. Rogers Collection

Oyedotun
Fabricademy
Inspired!

Chapter 1 2017- 2022: Community Contributed Lessons
Chapter 2 2022: An Educator Resource - Re-vision, Reboot,
Website Upgrade, Global Community Drivers



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SCOPES-DF

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