## **Creator Bot Hybrid learning resources**

Creating safe and effective hybrid learning experiences



## The COVID-19 pandemic has changed the landscape of teaching and learning

landscape of learning. With this document Creator Bots wants to implementing and improving hybrid learning for K-12 students

The COVID-19 pandemic has dramatically changed the share some hybrid learning resources and ideas for



## How to effectively implement hybrid learning?

learning objective. school and home.

- Hybrid learning is a delicate process that requires attention to reach its full potential of **combining** traditional classroom experiences, experiential learning objectives, and digital class delivery for each
- We can keep students and teachers safe while providing them with valuable live instruction that gives them the tools to successfully complete schoolwork both from

## MAKE HYBRID LEARNING SAFE AND FUN

Many students chose to learn in-person or online this school year. Others are spending a couple days a week in person and the rest at home. These approaches aren't static since increases in COVID-19 spread could change the rules.

Adapting our work to online and hybrid formats without the time and resources can be challenging when students can join a live class either in person or remotely, but it's still possible to design a great class when our students don't always share the same location.



#### VIRTUAL PROJECTS

One way to make virtual learning feel more exciting and close is to make use of some of the simulation tools we provide that allow us to learn and teach almost as if we were in-person, which can be seamlessly combined with our hands-on Creator Bot project challenges, since the two formats share the same core components. This is especially useful to make sure both in-person and virtual students learn at the same rate.

#### HANDS-ON PROJECTS

Keeping your students active with in-person activities is possible by promoting personal prevention practices (such as handwashing, staying home when sick, keeping distance), learning pods, implementing robot and robot space segmentation guides we provide, and environmental cleaning and disinfection of the robots and tools you are going to use in the class or project. We provide a more detailed guide to best practices for teaching with the robots in a Covid-safe way.

#### Virtual and Hands-on projects

#### **AWAKEN YOUR STUDENTS' CURIOSITY**

Give them little clues about the project, and ask them to explore their prior knowledge on the topic.

#### MAKE THEM EXPLORE IN PERSON

Have them explore the topic of the class in "the real world" to find examples in their day to day at home or in things that they know or can research.

### CREATE

Ask them to create and imagine new solutions and opportunities that include science, technology, engineering or math and share their creations.

## Lessons ideas

#### **SEE OUR IN-PERSON GUIDE FOR MORE DETAILS ON SAFE IN-PERSON LEARNING**

#### **ENCOURAGE YOUR STUDENTS TO**

#### HAVE A CHALLENGE OR PROBLEM FOR THEM TO SOLVE

Why not have the kids come up with a challenge idea? It can be wild and crazy or something practical and impactful.

The idea is to take them through the whole creative problem solving process. Identify the problem, list what tools or elements are available, identify strengths and weaknesses for the situation, brainstorm possible solutions. Start testing and building, adjust as needed until a viable solution is found. Let their imagination run free



# Engage with exciting activities

## An example of on of our challenges





Your Creator Bot needs help! It looks like when it was out exploring Mars, it got stuck in a swamp of toxic slime. Create an SOS light pattern on your LED to signal to other spaceships flying by that your Creator Bot is in trouble!

A lot of people think that SOS is short for something. But in reality, the letters don't stand for anything. The signal isn't even supposed to be three individual letters. It's a continuous Morse code string of three dots, three dashes, and three dots all run together. Since three dots form the letter "S" and three dashes form an "O" in Morse code, the signal came to be called an "SOS."

## IMAGINE - BUILD - CODE

CREATOR BOTS IS THE FIRST ARDUINO-POWERED ROBOT THAT TEACHES ELECTRICAL ENGINEERING, PROGRAMMING, 3D MODELING AND 3D PRINTING, ALIGNED TO COMPUTER SCIENCE STANDARDS.

#### MAKE LEARNING FUN AND TEACHING EASY, REQUEST A DEMO AND TAKE YOUR STEM PROGRAM TO THE NEXT LEVEL

REQUEST A DEMO







