

[Full STEAM Ahead](#) is a collection of (primarily asynchronous) teaching+learning resources that MIT put together, created as a rapid response to the need for online resources during the COVID-19 pandemic. The MIT pK-12 community came together to create 10 K-12 packages for learners of all ages. Each package contains a thematic set of videos, resources, and online/offline activities for different grades.

Week 1 | [Learn about the Spread of Disease](#) (ft. [MIT Education Arcade](#))

- Expert insights within this package address various topics around the spread of diseases and include interviews with [Professor Seth Mnookin](#), [Professor Ruben Juanes](#), and [Dr. Peter Senge](#).

Week 2 | [Stepping into Invention Education](#) (ft. [Lemelson-MIT](#))

- Expert insight videos within this package look at learning through invention and include interviews with [MIT Professor Michal Cima](#) and [MIT Professor Sangeeta Bhatia](#), along with a short produced interview with [Minister David Sengeh \(currently the Minister of Basic and Secondary Education for Sierra Leone\)](#).

Week 3 | [Exploring and Living in Outer Space!](#) (ft. MIT Media Lab [Space Exploration Initiative](#))

- Expert insight videos within this package on space exploration include interviews with graduate students & researchers about [small satellites \(CubeSats\)](#), the [future of space food](#), and the [realities of living on the moon](#).

Week 4 | [Making Music and Sounds](#) (ft. [MIT Edgerton Center](#))

- This package encourages participants of all ages (K-12) to [Listen](#), [Play](#), and [Think](#) about music and sound all around us. There's also a really fun video about [making your own kitchen sound symphony](#).

Week 5 | [The World Around Us](#) (MIT PK12 Community)

- This package invites learners of all ages to observe the world around them. Expert Insights include an [interview with Professor Penny Chisholm](#)

Week 6 | [Inventing Matters!](#) (ft. Lemelson-MIT)

- This package also focuses on Invention Education, and highlights the students winners of the LMIT 2020 Prize in the categories of “[Use It!](#)”, “[Move It!](#)”, “[Eat It!](#)”, and “[Cure It!](#)”, from around the country!

Week 7 | **[Reveal! Discovering Science Through Compelling Images](#)** (ft. [MIT Museum](#))

- This package highlights the work of three MIT experts—along with their graduate students and research teams—for use as inspiration for developing your own ways to see the world in a new perspective. Join the [Curiosity Correspondents](#) in three explorations:
  - [A Different Lens \(ft. Felice Frankel\)](#)
  - [Extreme Exposure \(ft. Dr. Allan Adams\)](#)
  - [The Picture Of Health \(ft. Dr. Jim Collins\)](#)

Week 8 | **[Making Music and Sounds Part 2](#)** (ft. MIT Edgerton Center)

- This package expands on the exploration of music and sound within the world around you. Expert spotlights here include introductions to the [theremin](#) and [didgeridoo](#) by artists and musicians.

Week 9 | **[Artificial Intelligence!](#)** (ft. [MIT Media Lab Personal Robots Group](#) & [MIT App Inventor](#))

- This package helps participants [learn about and create systems that use artificial intelligence](#). While there are not any interviews in this package, there are lots of good resources for different grade bands (K-5, 6-8, 9-12).

Week 10 | **[Get Creative With Math](#)** (ft. [Lifelong Kindergarten](#))

The package encourages participants to get creative with math and was developed by the Lifelong Kindergarten team at the MIT Media Lab. Learn about the [4 P’s of Creative Learning from Professor Mitch Resnick](#) and learn how young scholars can use Scratch & Scratch Jr to play.