STONEOAK MEDIA

StoneOakMedia.com

STEM-focused
project based learning
aligned to curriculum standards
supercharged with cutting-edge
Augmented Reality & 3D Printing
technology

PRODUCT & PROGRAM CATALOG 2025-2026

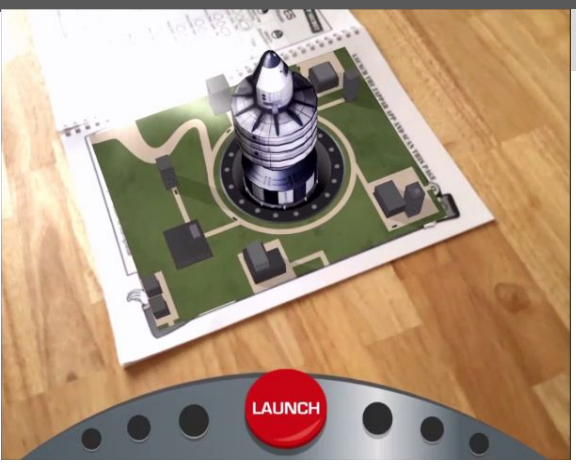
20250509

Introduction

StoneOak Media was established in 2014 with a singular focus on delivering educational solutions that make learning immersive, engaging, and fun. StoneOak Media's initial products were the first to bring project-based augmented reality enhanced STEM content into the classroom. StoneOak Media is also the first company to bring 3D Printing focused STEM lessons, centered on the Engineering Design Process, into classrooms and libraries.

StoneOak Media's products have been used by tens of thousands of students in several thousand schools across North/Central/South America, Europe, Africa, Asia, and Australia. Learn more at www.StoneOakMedia.com.

Product & Program Overview



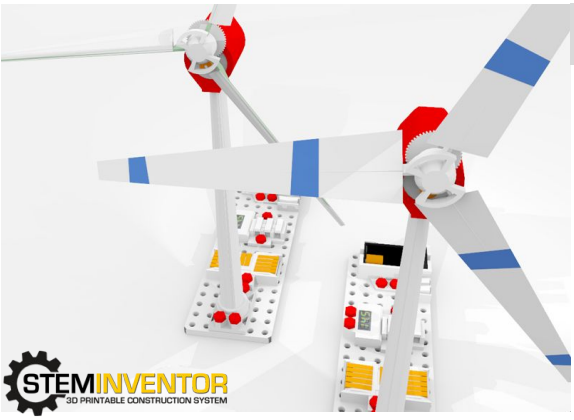
Augmented Reality Enhanced Products & Programs

Augmented Reality STEM Adventures!

Students use their personal mobile phone/tablet to experience the immersive Augmented Reality enhanced content in these low-cost workbooks. Lessons include:

Solar System Expedition: Students explore each planet in the Solar System, take measurements of conditions there, and design a base capable of surviving and thriving on their planet of choice.

Water Cycle Engineer: Students travel to a Moon base, to learn about the water cycle in the context of its sealed ecosystems. They complete the mission by setting up a water cycle at a new underground base.



STEMInventor 3D Printable Products & Programs

Supercharging Learning with 3D Printed STEM Resources

Unlock a world of creativity with STEMInventor 3D printable STEM kits and construction system components.

Effortlessly download and 3D print as many parts as you need for these STEM-enhanced lessons, and witness the magic as students' imagination and creativity flourish.

Our catalog features over 100 easy-to-3D print construction components, STEM kits, and competitive design challenges, and educational lessons; providing everything you need to inspire and engage young innovators.

Make-Your-Own 3D Printed STEM Makerspace Resources & Programs

STEMINVENTOR
3D PRINTABLE CONSTRUCTION SYSTEM

Hundreds of 3D Printable Construction System Parts

STEMInventor.com provides easy access to hundreds of 3D printable construction system parts. From structural beams, to axles, to screws, wheels, cams, tools. and more, STEMInventor.com provides the resources needed to supercharge your makerspace. Empower students and educators to make their own STEM inventions as they explore science and engineering!

Price Summary

Level	Program Title	Materials Used In Lesson:	Target Grade	Time (Hrs)	Hosting Class	Material Price*	Total Price
Level 0 (Easiest)	**Solar System Expedition**	□ AR Workbook	4 - 8	1	$150 Us $0 DIY	$448.87 or $538.65 □	$598.87 / $688.65: Us $448.87 / $538.65:DIY
Level 0	**Water Cycle Engineer**	□ AR Workbook	4 - 8	1	$150 Us $0 DIY	$448.87 or $538.65 □	$598.87 / $688.65: Us $448.87 / $538.65:DIY
Level 0	**Intro To 3D Printing**	Web Based Live Training	9 -12, Adult	1	$150	$0	$150
Level 0	**Intro To 3D Printing**	Web Based Recorded Video	9 -12, Adult	1	$25 /person	$0	$25
Level 1	**Catapult Challenge**	🔩: 3D Printed Parts	5 - 12	1.5	$200 Us $0 DIY	💻 $50	$250 Us $50 DIY
Level 1	**Simple Machines: Pulleys**	🔩: 3D Printed Parts 📦: Parts Kit	5 - 12	1.5	$200 Us $0 DIY	💻$50 📦$100	$350 Us $150 DIY
Level 1	**Bridge Design Challenge**	🔩: 3D Printed Parts 📦: Parts Kit	5 - 12	1.5	$200 Us $0 DIY	💻$50 📦 $50	$300 Us $100 DIY
Level 1	**Crane Design Challenge**	🔩: 3D Printed Parts 📦: Parts Kit	5 - 12	1.5	$200 Us $0 DIY	💻$50 📦 $50	$300 Us $100 DIY
Level 2	**Pump Jack**	🔩: 3D Printed Parts 📦: Parts Kit	6 - 12	1.5	$200 Us $0 DIY	💻$50 📦 $200	$450 Us $250 DIY
Level 2	**Solar Power Station**	🔩: 3D Printed Parts 📦: Parts Kit	6 - 12	1.5	$200 Us $0 DIY	💻$50 📦 $360	$610 Us $410 DIY
Level 3	**Line Shaft Power**	🔩: 3D Printed Parts 📦: Parts Kit	6 - 12	1.5	$200 Us $0 DIY	💻$50 📦 $250	$500 Us $300 DIY
Level 3	**Solar House & AC**	🔩: 3D Printed Parts 📦: Parts Kit	6 - 12	1.5	$200 Us $0 DIY	💻$50 📦 $320	$570 Us $370 DIY
Level 3	**Wind Turbine Challenge**	🔩: 3D Printed Parts 📦: Parts Kit	6 - 12	1.5	$200 Us $0 DIY	💻$50 📦 $250	$500 Us $300 DIY
Varies	**All Kit Access**	🔩: 3D Printed Parts 📦: Parts Kit	4-12	N/A	N/A	💻$239 📦 Varies	Varies

□ = Augmented Reality Enhanced Workbooks
🔩 = Parts 3D Printed By Educator & Distributed to Students
💻 = Price for Lesson Related Digital (.STL) File Access.
📦 = 10 Parts Kits Containing Lesson Wires, Motors, and other Non-3D Printable Items
* Each Lesson's Books, Parts Kits, and 3D files can be reused.

Augmented Reality Enhanced Resources

Title: Solar System Expedition

Grades: 4-8

Title: Solar System Expedition
Type: Augmented Reality (AR) Enhanced Workbook-Based Virtual Instruction
Description: Take STEM education to the next level with this augmented reality enhanced tour of the Solar System. Participants join a Top Secret mission to establish an outpost on a planet in our Solar System. This fun-filled educational tour of the Solar System teaches students basic facts about each of the planets, and engages them to take measurements of the conditions there. The lesson wraps up by challenging students to design a base for the planet of their choice.
Duration: 1 Hour
Format: 25 or 30 Printed Workbooks
Execution:

Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up books from Educator prior to virtual class, and use books at home on in their class during the program. All training materials are loanable/reusable by the educator thereafter.

Option 2: DIY. You host the lesson yourself at no incremental cost.

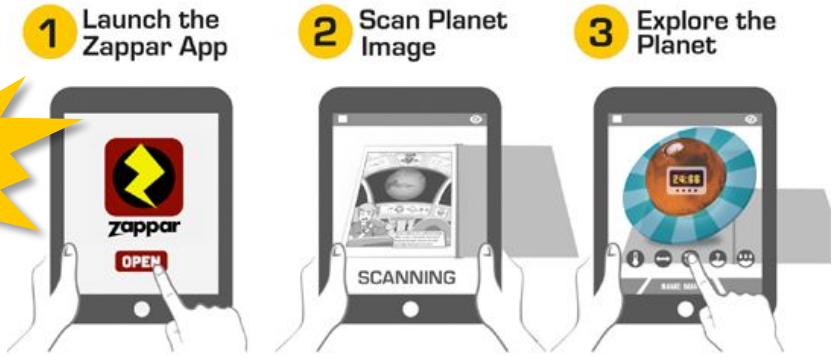
STEM Topics Covered: Scientific Investigation & Reasoning, Matter & Energy, Earth & Space, Organisms & Environment, Engineering Design.

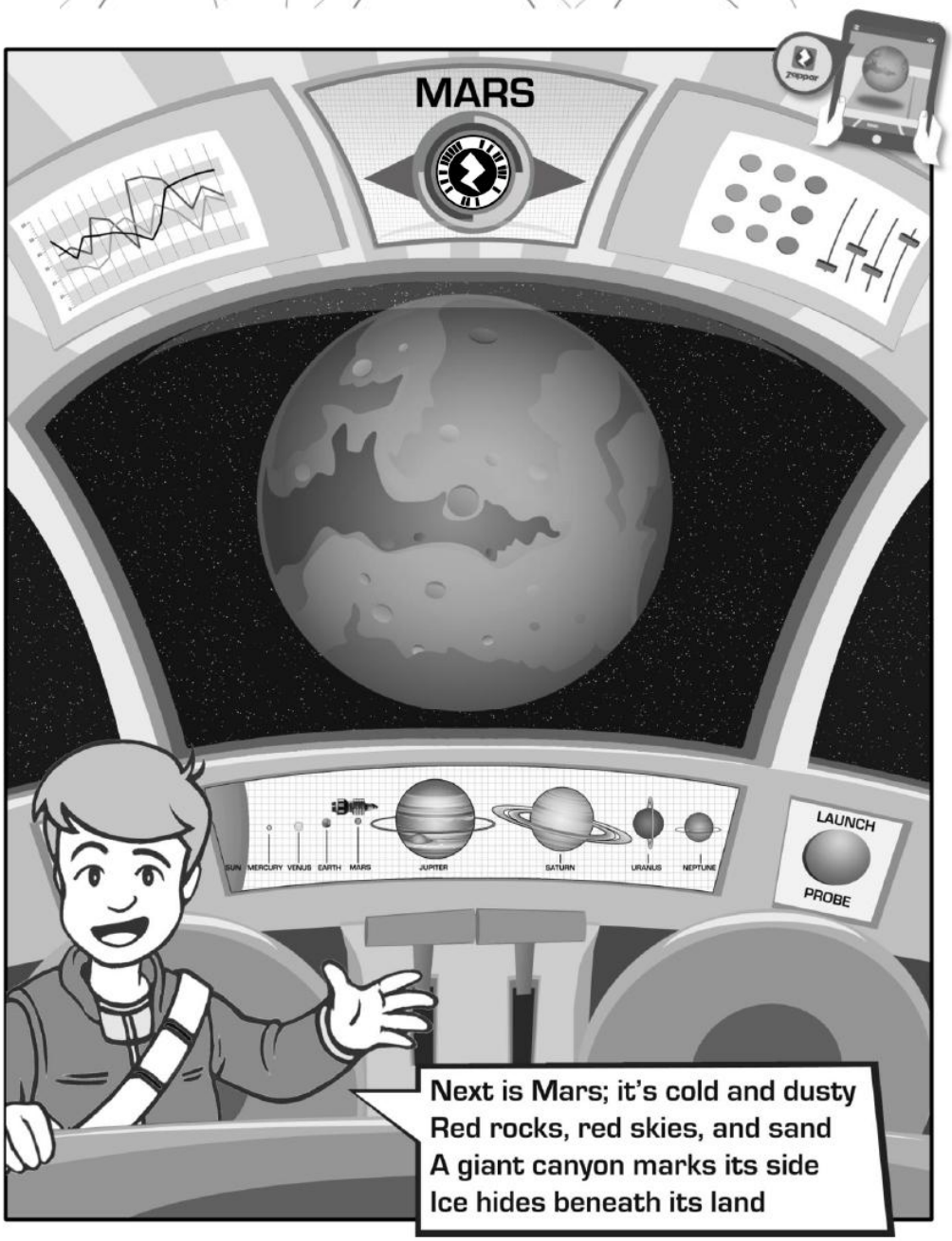
Training	Reusable Training Materials	Total
$150 We Host **$0** DIY	**$448.87:** Includes 25 AR-enhanced Solar System Expedition Workbooks **$538.65:** Includes 30 AR-enhanced Solar System Expedition Workbooks	**$598.87 or $688.65:** Us **$448.87 or $538.65:** DIY

Try *Solar System Expedition* for yourself!

Grades: 4-8

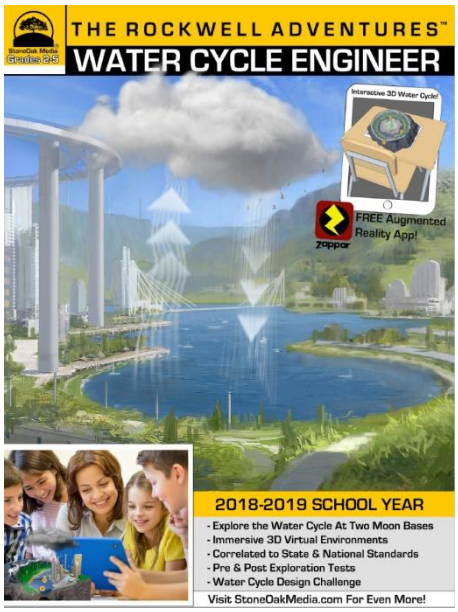
Works on any iOS or Android Device





Title: Water Cycle Engineer

Grades: 4-8



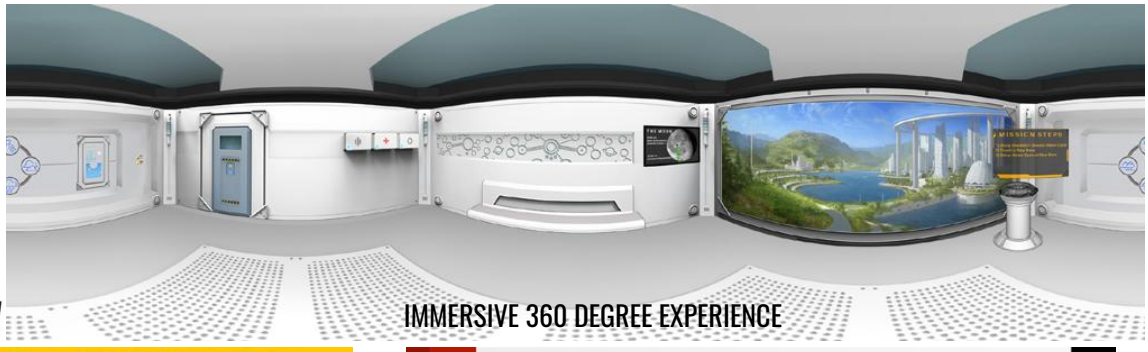
Title: Water Cycle Engineer
Type: Augmented Reality (AR) Enhanced Workbook-Based Virtual Instruction
Description: Take STEM education to the next level with this augmented reality enhanced tour of the Water Cycle. Participants then virtually travel to colonies on the Moon to learn about the water cycle. This fun-filled educational adventure teaches students facts about each step of the water cycle and challenges them to setup a water cycle at a new Moon base under construction.
Duration: 1 Hour
Format: 25 or 30 Printed Workbooks
Execution:

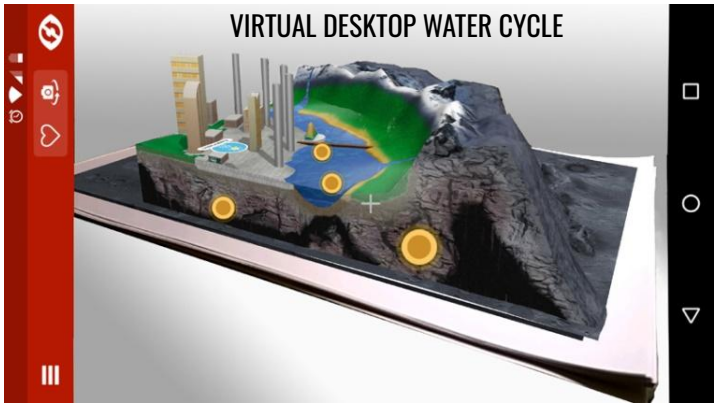
Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up books from educator prior to virtual class, and use books at home on in their class during the program. All training materials are loanable/reusable by the educator thereafter.

Option 2: DIY. You host the lesson yourself at no incremental cost.

STEM Topics Covered: Scientific Investigation & Reasoning, Matter & Energy, the Water Cycle, Engineering Design.

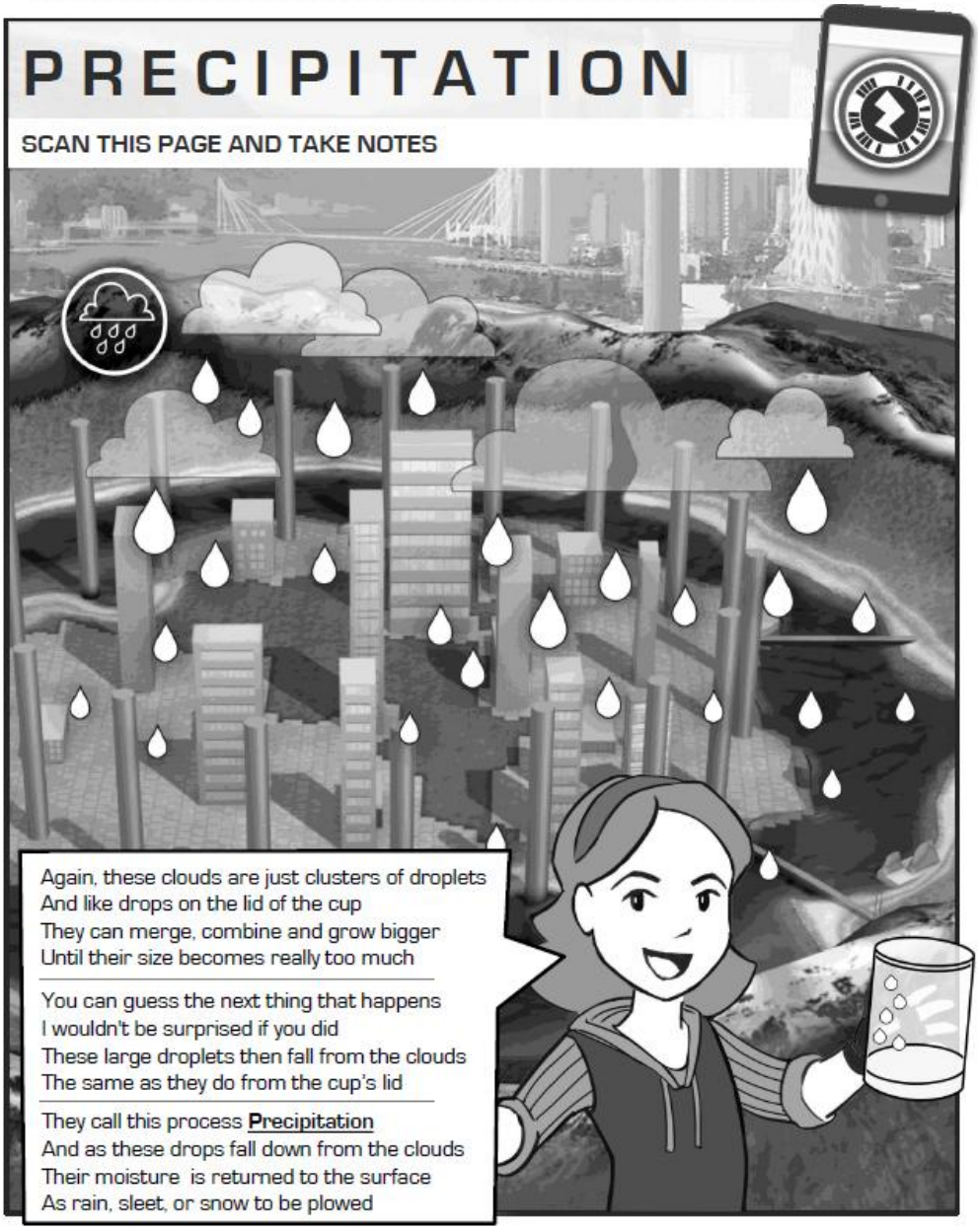
Training	Reusable Training Materials	Total
$150 We Host **$0** DIY	**$448.87:** Includes 25 AR-enhanced Water Cycle Engineer Workbooks **$538.65:** Includes 30 AR-enhanced Water Cycle Engineer Workbooks	**$598.87 or $688.65:** Us **$448.87 or $538.65:** DIY


IMMERSIVE 360 DEGREE EXPERIENCE



Try *Water Cycle Engineer* for yourself! **Grades:** 4-8

Works on any iOS or Android Device



How Augmented Reality Enhanced Lessons Work

Step 1: Augmented Reality Workbook Acquisition & Distribution

- Library Purchases Augmented Reality Enhanced Workbooks
- These Workbooks Become Library Loan Items
- Students Sign Up For Virtual Training
- Students Stop By Library and Check Out Workbooks Ahead of Virtual Training Date

Step 2: Students Load Augmented Reality App

- Workbook Brought Home
- Student Download Zappar Augmented Reality App To Their Mobile Phone or Tablet (iOS/Android)
- Student Awaits Online Training Date

Step 3: Students Assemble & Test STEM Kit During Virtual Training

- Student Logs Into Webinar At Designated Time
- Student Explores Immersive Webinar
- Student Keeps Workbook Several Days, Optimizing Their Designs
- Student Returns Workbook To Library

3D Printing Enhanced Resources

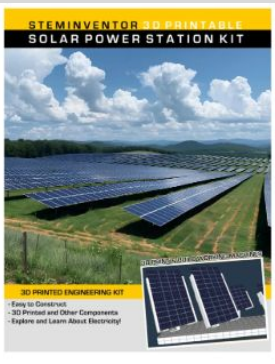
Overview: STEMInventor 3D Printed Lessons

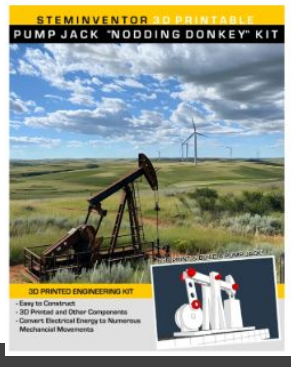
STEMInventor Platform

Discover the STEM Inventor suite, offering easy-to-replicate 3D printable construction components and pre-designed kits for engineering challenges. With hundreds of 3D printable parts and over a dozen STEM-focused kits, the possibilities are limitless!

Perfect for classrooms, libraries and makerspaces; enabling the creation of unlimited inexpensive 3D printable Erector Set like construction system parts and STEM-focused educational kits. Print components for hundreds of students/patrons for pennies a piece. Replace broken or missing parts by simply printing more. Give away parts to students/patrons that build creations at your facility, then print more as needed. Unlimited replication for a single location. Ideal for budget-friendly, hands-on STEM learning!

Many Lessons To Choose From

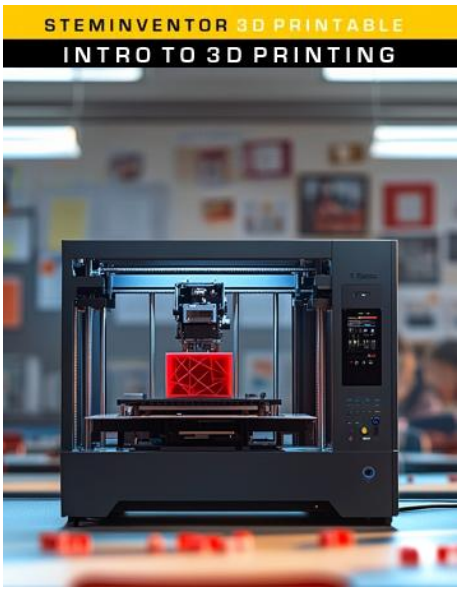




Lesson Prep Complexity Level 0

Title: Intro To 3D Printing

Grades: 9-12, Adults, Educators



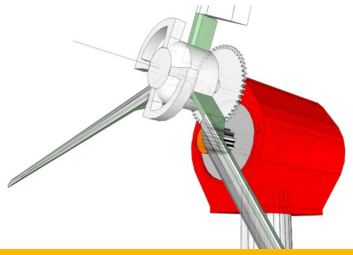
Title: Intro to 3D Printing
Type: Virtual Instruction
Duration: 1 Hour
Format: Live Zoom-based Virtual Meeting
Description: This live virtual training session, designed for educators, library staff and patrons, covers the basics of what it takes to get started in 3D printing. Topics covered include: Intro to 3D Models, how 3D printing works, moving from design to print, 3D modeling software, 3D model repositories, model slicing, 3D printing.
STEM Topics Covered: 3D Design, 3D Model Repositories, 3D Printing
Pricing:

Virtual Training	Reusable Training Materials	Total
Live Zoom: $150/Class	**$0:** None needed	**$150**
Pre-Recorded $25/Person	**$0:** None needed	**$25**

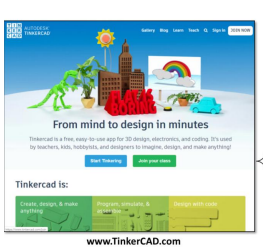
Setup: No setup is needed.
Lesson: Live Zoom participants log into class at the designated time. Questions will be taken and answered throughout the presentation. Pre-Recorded Class participants individually log into StoneOak Media's Learning Management System.

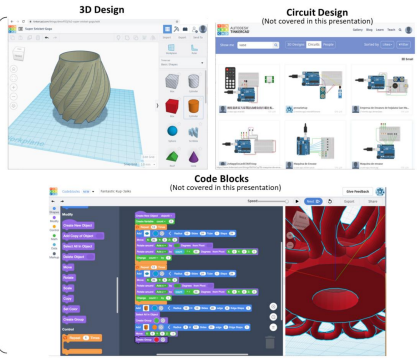
What is a 3D Model?

- **Definition**
  - "In 3D computer graphics, 3D modeling is the process of developing a mathematical representation of any surface of an object (either inanimate or living) in three dimensions via specialized software - Wikipedia

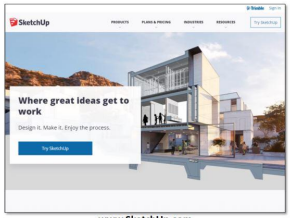


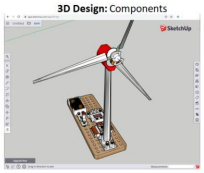
Creating 3D Designs: TinkerCAD

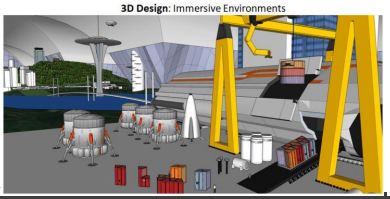




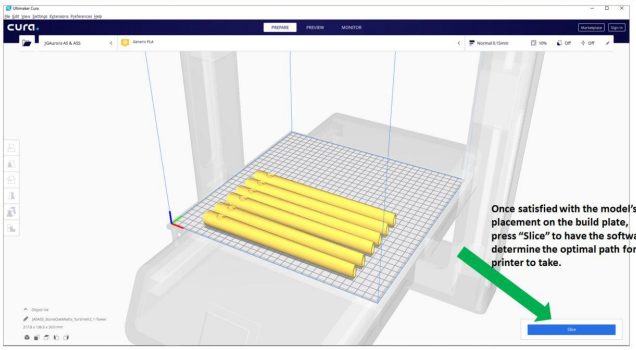
Creating 3D Designs: SketchUp







3D Printer Slicing Software: Moving From Design to Print



Title: Machines @ Work: Catapult Design Challenge

Grades: 5-12

Title: Catapult Design Challenge
Type: 3D Printed Lesson
Description: Designed for upper elementary, middle, and high school students, this 3D printable lesson teaches students about the engineering design process and the basics of projectile motion as they assemble this 3D printed catapult.
Duration: 1.5 Hour
Format: 3D Printed Parts, Background Videos, Student Consumables
Execution:

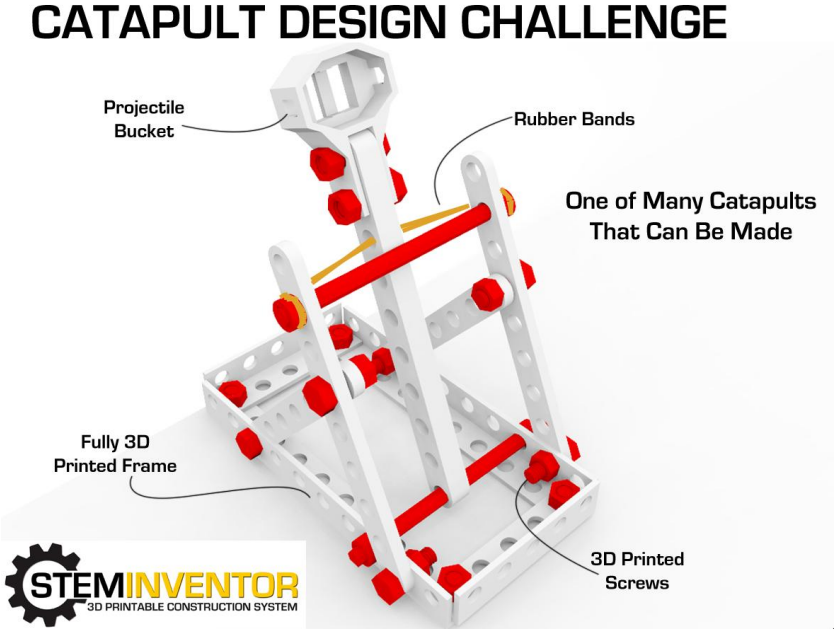
Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up parts from educator prior to virtual class, and use during the program. All training materials are loanable/reusable by the educator thereafter.
Option 2: DIY. You host the lesson yourself at no incremental cost.

STEM Topics Covered: Physics, Scientific Investigation & Reasoning

Lesson Setup: Educators will be provided with access to the online repository of digital (.STL) files needed to 3D print the components featured in this lesson. Ahead of the date of the class, educators 3D print all of these components.

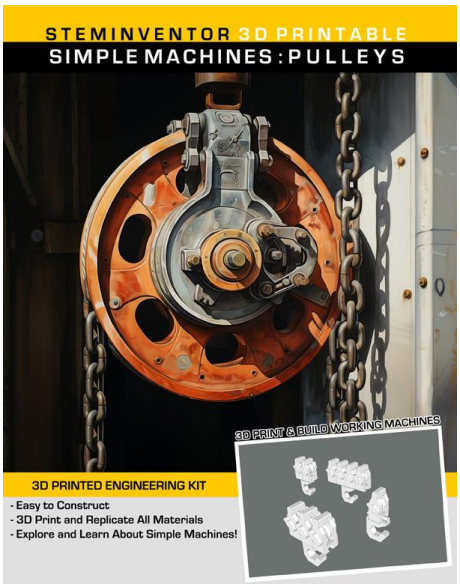
Lesson: During the lesson, attendees learn about the history and types of catapults. Basic physics behind projectile motion are also covered. An introduction is then given to the catapult they will be assembling during the class. Attendees then work to assemble the 3D printed catapults during the lesson. During and after the lesson, students can creatively explore variations on the implementation. Afterwards, they return the kit to the educator.

Training	Reusable Training Materials	Total
$200: We Host **$0:** DIY	**$50:** Catapult related 3D printable .STL files	**$250** We Host **$50:** DIY



Title: Machines @ Work: Simple Machines - Pulleys

Grades: 5-12



Title: Simple Machines - Pulleys
Type: 3D Printed Lesson
Description: Designed for middle and high school students, this 3D printable lesson teaches students about different types of Pulleys, a type of simple machine. Students learn about mechanical advantage pulleys deliver as they assemble, single, double, triple, and quadruple wheel compound pulleys, and use these simple machines to accomplish work.
Duration: 1.5 Hour
Format: 3D Printed Parts, Background Videos, Student Consumables
Execution:

Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up parts from educator prior to virtual class, and use during the program. All training materials are loanable/reusable by the educator thereafter.

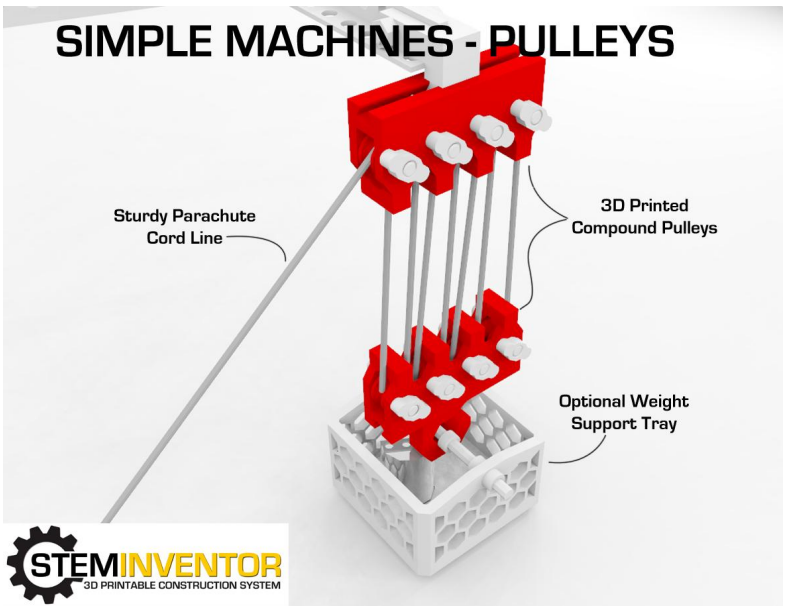
Option 2: DIY. You host the lesson yourself at no incremental cost.

STEM Topics Covered: Simple Machines, Scientific Investigation & Reasoning

Lesson Setup: Educators will be provided with 10 "Simple Machine - Pulleys" parts kits, and 1-year access to the online repository of digital (.STL) files needed to 3D print the structural components of each Pulley. Ahead of the date of the class, educators will 3D print all structural components.

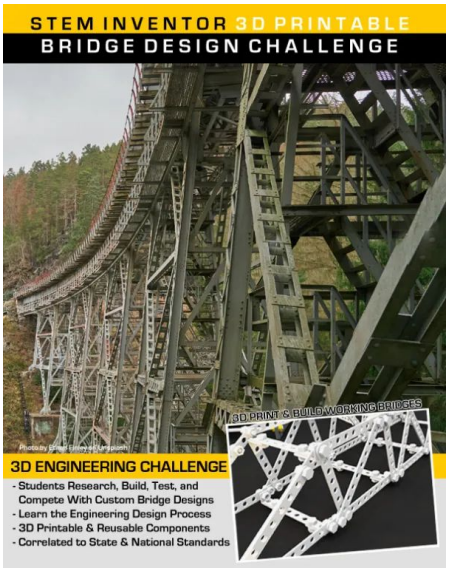
Lesson: During the lesson, attendees learn about the various kinds of pulleys, and measure Mechanical Advantage, Work, and Efficiency. An overview of each kind of pulley is covered as attendees work to assemble the 3D printed pulleys during the lesson. During and after the lesson, students can creatively explore variations on the implementation. Afterwards, they return the kit.

Training	Reusable Training Materials	Total
$200: We Host **$0:** DIY	**$100:** 10 Simple Machine Reusable Parts Kits + **$50:** Simple Machine 3D Printable .STL Files	**$350** We Host **$150:** DIY



Title: Bridge Design Challenge

Grades: 5-12



Title: Bridge Design Challenge
Type: 3D Printed Lesson
Description: Designed for upper elementary, middle and high school students, this 3D printable lesson teaches students about the basics of bridge design and the common types of truss bridges, as they assemble a 3D printed Warren truss bridge.
Duration: 1.5 Hour
Format: 3D Printed Parts, Background Videos, Student Consumables
Execution:

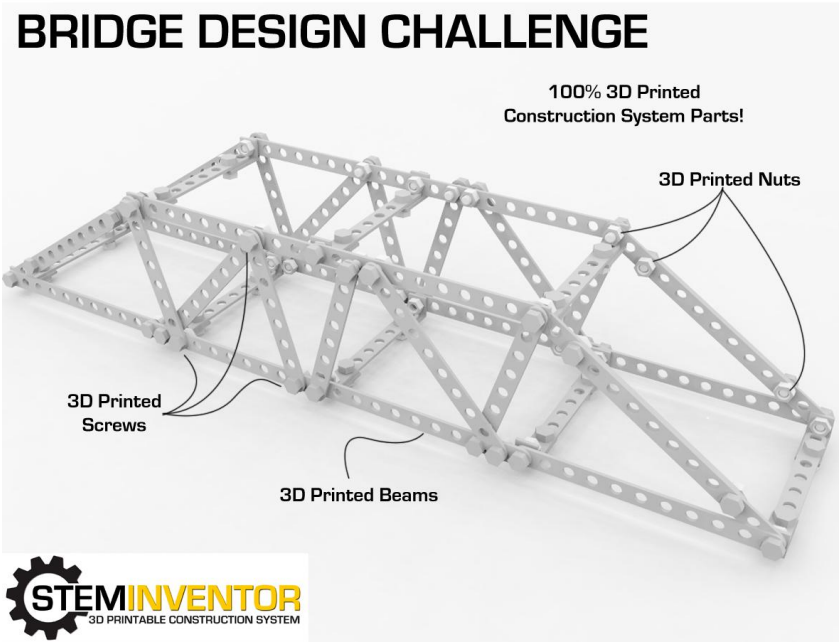
Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up parts from educator prior to virtual class, and use during the program. All training materials are loanable/reusable by the educator thereafter.

Option 2: DIY. You host the lesson yourself at no incremental cost.

STEM Topics Covered: Scientific Investigation & Reasoning, Engineering Design

Lesson Setup: Educators will be provided with 10 Bridge Design parts kits, and 1-year access to the online repository of digital (.STL) files needed to 3D print the Bridge structural components. Prior to class, educators 3D print all structural components
Lesson: During the lesson, attendees learn about the history and types of bridges that have been developed. An overview of various kinds of truss bridges, and the pros and cons of each is covered as they work to assemble the 3D printed bridge. During and after the lesson, students can creatively explore variations on the implementation. Afterwards, they return the kit.

Training	Reusable Training Materials	Total
$200: We Host **$0:** DIY	**$50:** 10 Reusable Bridge Parts Kits + **$50:** Bridge Related 3D Printable .STL Files	**$300** We Host **$100:** DIY



Title: Crane Design Challenge

Grades: 5-12

Title: Crane Design Challenge
Type: 3D Printed Lesson
Description: Designed for middle and high school students, this 3D printable lesson teaches students about the history of cranes, and design considerations engineers use when designing cranes. They then work to assemble a sample crane, and use it to pick up a weight.
Format: 3D Printed Parts, Background Videos, Student Consumables
Duration: 1.5 Hour
Execution:

Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up parts from educator prior to virtual class, and use during the program. All training materials are loanable/reusable by the educator thereafter.

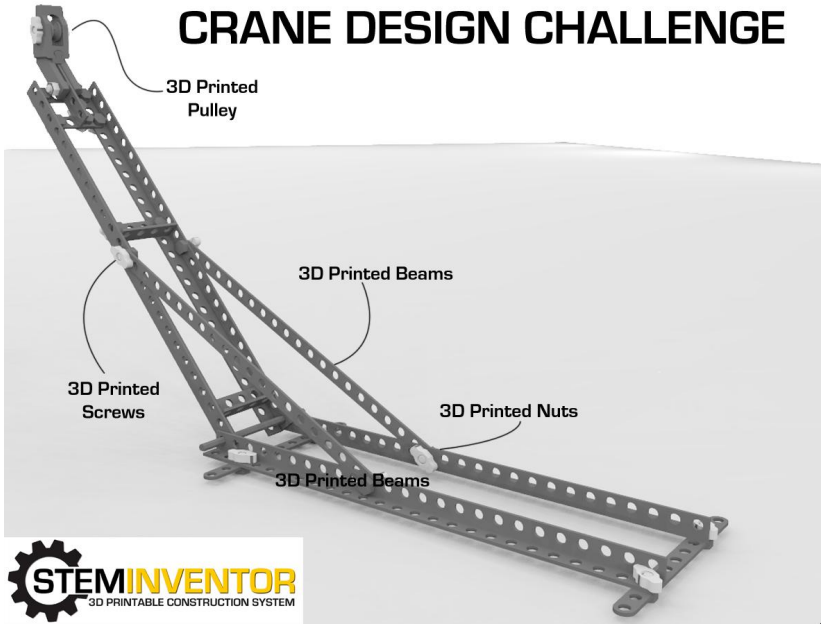
Option 2: DIY. You host the lesson yourself at no incremental cost.

STEM Topics Covered: Scientific Investigation & Reasoning, Engineering Design

Setup: Educators will be provided with 10 Crane parts kits, and 1-year access to the online repository of digital (.STL) files needed to 3D print Crane structural components. Ahead of the date of the class, educators 3D print all structural components

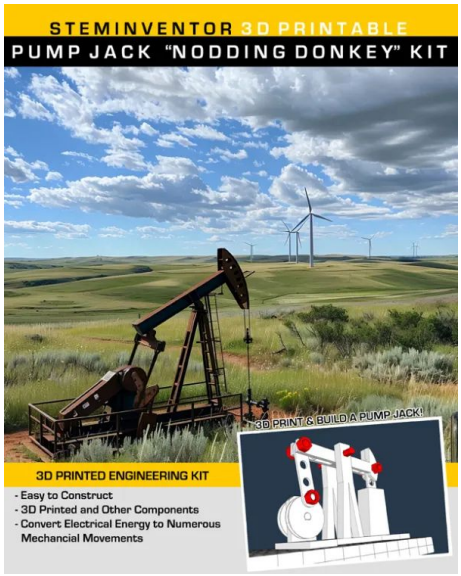
Lesson: During the lesson, attendees learn about the history and types of cranes that have been developed. The physics behind crane design are also discussed. Attendees then work to assemble the lesson's crane using educator supplied 3D printed parts. During and after the lesson, attendees creatively explore variations on the crane's implementation. Afterwards, they return the kit.

Training	Reusable Training Materials	Total
$200: We Host **$0:** DIY	**$50:** 10 Reusable Crane Parts Kits + **$50:** Crane Related 3D Printable .STL Files	**$300** We Host **$100:** DIY



Title: Machines @ Work: Pump Jack

Grades: 6-12



Title: Pump Jack "Nodding Donkey" STEM Kit
Type: 3D Printed Lesson
Description: Designed for middle and high school students, this 3D printable lesson teaches students about a wide variety of energy conversions: electricity to a variety of mechanical motions (rotational, to linear, to reciprocal, to levers) as they assemble this 3D printed Pump Jack.
Duration: 1.5 Hour
Format: 3D Printed Parts, Background Videos, Student Consumables
Execution:

Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up parts from educator prior to virtual class, and use during the program. All training materials are loanable/reusable by the educator thereafter.

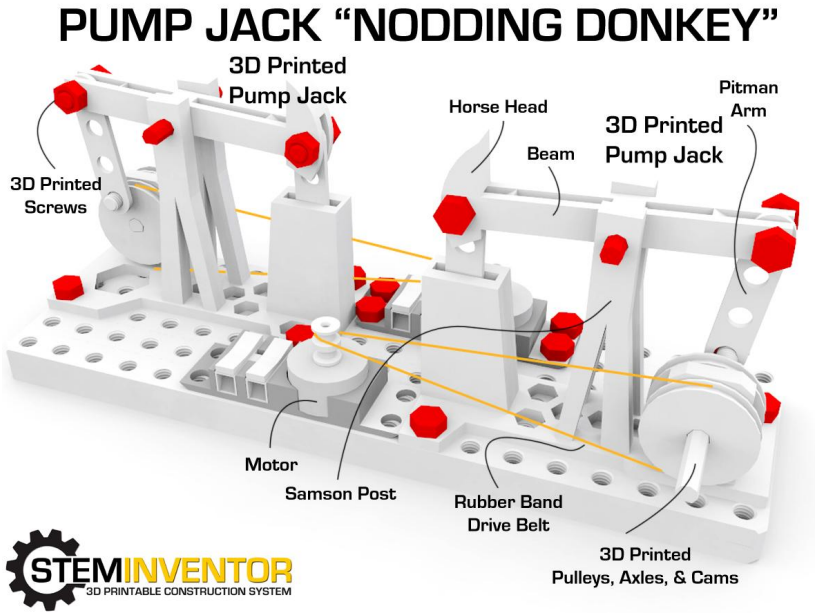
Option 2: DIY. You host the lesson yourself at no incremental cost.

STEM Topics Covered: Electricity, Matter & Energy / Energy Conversion, Simple Machines, Scientific Investigation & Reasoning

Setup: Educators will be provided with 10 Pump Jack parts kits, and 1-year access to the online repository of digital (.STL) files needed to 3D print the structural components of each Pump Jack. Ahead of the date of the class, educators will 3D print all structural components.

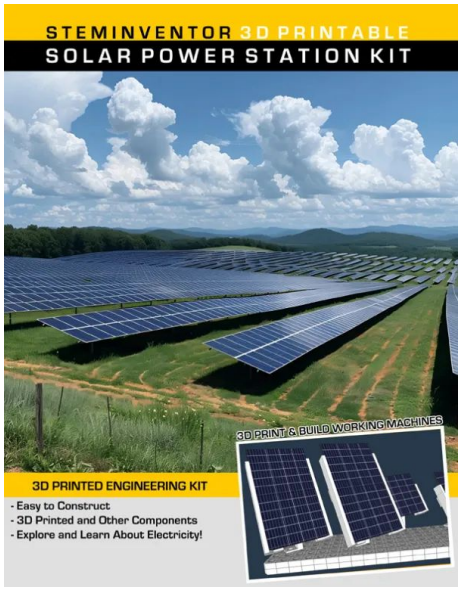
Lesson: During the lesson, attendees learn about how electricity works and various forms of energy conversion. An overview of various kinds of mechanical motion is also covered as they work to assemble the 3D printed pump jack during the lesson. During and after the lesson, students can creatively explore variations on the implementation. Afterwards, they return the kit.

Training	Reusable Training Materials	Total
$200: We Host **$0:** DIY	**$200:** 10 Pump Jack Reusable Parts Kits + **$50:** Pump Jack 3D Printable .STL Files	**$450** We Host **$250:** DIY



Title: Solar Power Station

Grades: 6-12



Title: Solar Power Station STEM Kit
Type: 3D Printed Lesson
Description: Designed for middle and high school students, this 3D printable lesson teaches students about a wide variety of STEM topics as they assemble a 3D printed solar power station. Participants assemble and link solar panels, and power projects under different lighting conditions.
Duration: 1.5 Hour
Format: 3D Printed Parts, Background Videos, Student Consumables
Execution:

Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up parts from educator prior to virtual class, and use during the program. All training materials are loanable/reusable by the educator thereafter.

Option 2: DIY. You host the lesson yourself at no incremental cost.

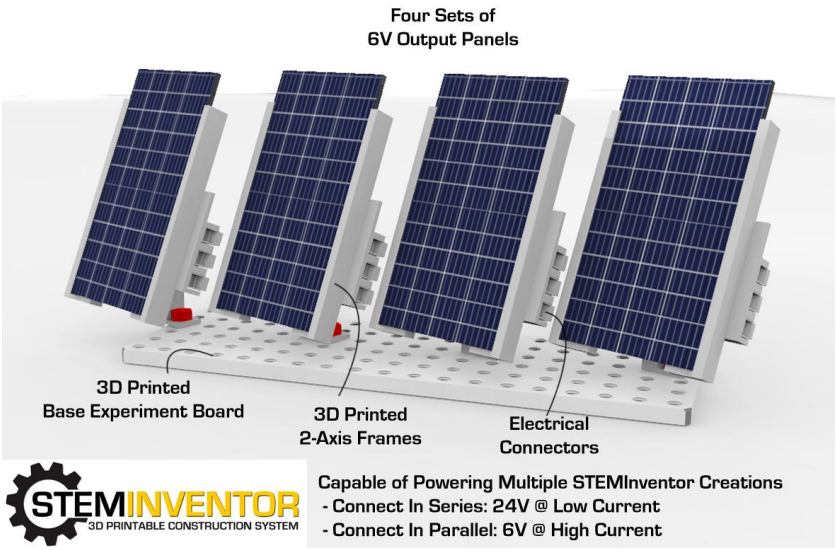
STEM Topics Covered: Environmental Sustainability, Renewable Energy, Electricity, Scientific Investigation & Reasoning

Setup: Educators will be provided with 10 Solar Power Station parts kits, and 1-year access to the online repository of digital (.STL) files needed to 3D print the structural components of each Solar Power Station. Ahead of the date of the class, educators 3D print all structural components. These become loan-able items, and are then lent out to each class attendee.

Lesson: During the lesson, attendees learn about real-life solar power stations, renewable energy, environmental sustainability, and how electricity works, as they work to assemble the 3D printed power station during the lesson. During and after the lesson, students use the engineering design process to improve their production of electricity. Afterwards, they return the kit.

Training	Reusable Training Materials	Total
$200: We Host **$0:** DIY	**$360:** 10 Solar Power Reusable Parts Kits + **$50:** Power Station 3D Printable .STL Files	**$610** We Host **$410:** DIY

SOLAR POWER STATION



Title: Solar House & Air Conditioning

Grades: 6-12

Title: Solar House & AC STEM Kit
Type: 3D Printed Lesson
Description: Designed for middle and high school students, this 3D printable lesson teaches students about a wide variety of STEM topics as they assemble this solar powered 3D printed house, with an attached evaporation cooling system capable of reducing its interior temperature by > 10°F.
Duration: 1.5 Hours
Format: 3D Printed Parts, Background Videos, Student Consumables
Execution:

Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up parts from educator prior to virtual class, and use during the program. All training materials are loanable/reusable by the educator thereafter.

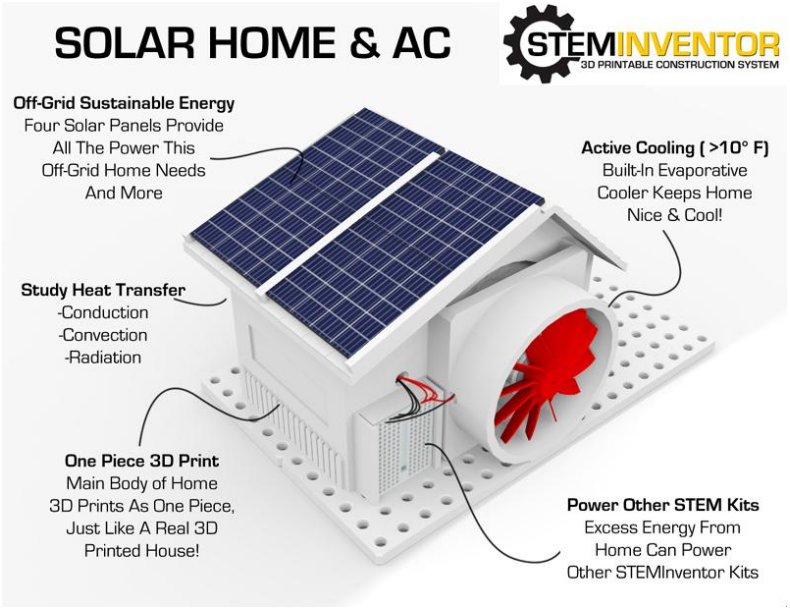
Option 2: DIY. You host the lesson yourself at no incremental cost.

STEM Topics Covered: Environmental Sustainability, Renewable Energy, Electricity, Heat Transfer, Additive Mfg, Scientific Investigation & Reasoning

Setup: Educators will be provided with 10 Solar Home & AC parts kits, and 1-year access to the online repository of digital (.STL) files needed to 3D print the structural components of each Solar Home. Ahead of the date of the class, educators will 3D print all structural components These become loan-able items, and are then lent out to each subsequent class attendee.

Lesson: During the lesson, attendees learn about real-life 3D printed homes, renewable energy, environmental sustainability, the different types of heat transfer (conduction, convection, radiation), electricity, and how evaporative coolers work, as they work to assemble the 3D printed house during the lesson. During and after the lesson, students use the engineering design process to improve their home setup to produce the biggest temp. difference. Afterwards, they return the kit.

Training	Reusable Training Materials	Total
$200: We Host **$0:** DIY	**$320:** 10 Solar House Reusable Parts Kits + **$50:** Solar House 3D Printable .STL Files	**$570** We Host **$370:** DIY



Title: Machines @ Work: Line Shaft Power

Grades: 6-12

Title: Line Shaft Power
Type: 3D Printed Lesson
Description: Designed for middle and high school students, this 3D printable lesson teaches students about a wide variety of energy conversions: electricity to a variety of mechanical motions (rotational, to linear, to reciprocal, to levers) as they assemble this engaging 3D printed lesson.
Duration: 1.5 Hours
Format: 3D Printed Parts, Background Videos, Student Consumables
Execution:

Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up parts from educator prior to virtual class, and use during the program. All training materials are loanable/reusable by the educator thereafter.

Option 2: DIY. You host the lesson yourself at no incremental cost.

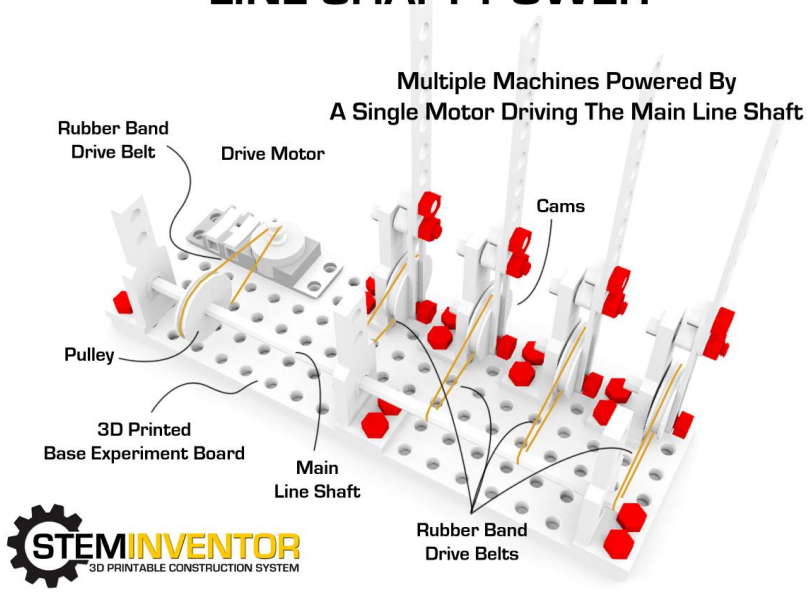
STEM Topics Covered: Electricity, Simple Machines, Scientific Investigation & Reasoning, Engineering Design

Setup: Educators will be provided with 10 Line Shaft Power parts kits, and 1-year access to the online repository of digital (.STL) files needed to 3D print the structural components of each Line Shaft Power kit. Ahead of the date of the class, educators 3D print all structural components. These become loan-able items, and are then lent out to each class attendee.

Lesson: During the lesson, attendees learn about how electricity works and various forms of energy. An overview of various kinds of mechanical motion is also covered as they work to assemble the 3D printed line shaft power kit during the lesson. During and after the lesson, students can creatively explore variations on the implementation. Afterwards, they return the kit.

Training	Reusable Training Materials	Total
$200: We Host **$0:** DIY	**$250:** 10 Line Shaft Reusable Parts Kits + **$50:** Line Shaft 3D Printable .STL Files	**$500** We Host **$300:** DIY

LINE SHAFT POWER



Title: Wind Turbine Challenge

Grades: 6-12

Title: Wind Turbine Challenge
Type: 3D Printed Lesson
Description: Designed for middle and high school students, this 3D printable lesson empowers students to use the Engineering Design Process as they learn about forces, motion, energy, and electricity; and experiment to produce the most power from their turbines.
Duration: 1.5 Hours
Format: 3D Printed Parts, Background Videos, Student Consumables
Execution:

Option 1: "We Host" Training includes virtual instruction by one of our trainers. Participants pick up parts from educator prior to virtual class, and use during the program. All training materials are loanable/reusable by the educator thereafter.

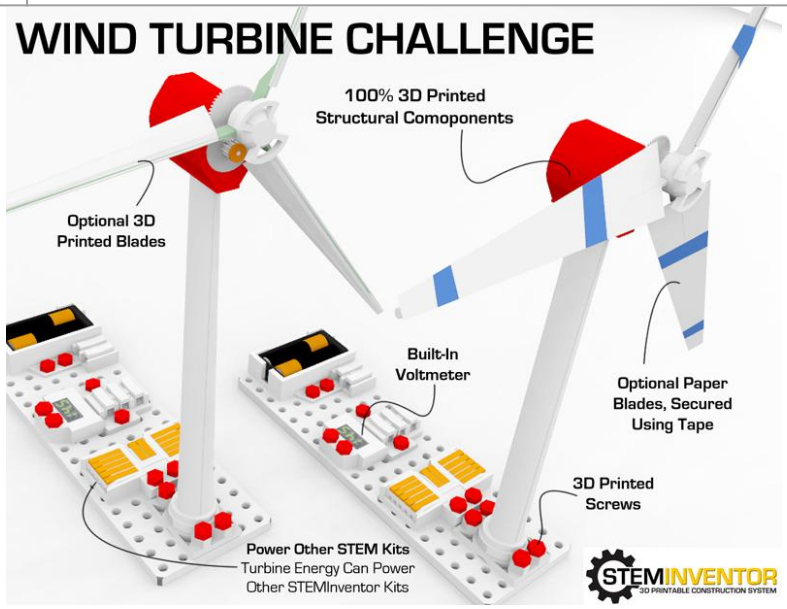
Option 2: DIY. You host the lesson yourself at no incremental cost.

STEM Topics Covered: Scientific Investigation & Reasoning, Matter & Energy, Engineering Design. Electricity, Renewable Energy, Power Systems

Setup: Educators will be provided with 10 Wind Turbine Challenge parts kits, and 1-year access to the online repository of digital (.STL) files needed to 3D print the structural components of each Wind Turbine. Ahead of the date of the class, educators 3D print all structural components. These become loan-able items.

Lesson: During the lesson, attendees learn about renewable energy, the inner workings of wind turbines, how turbines integrate with city power grids, turbine blade design considerations, electricity, the engineering design process and more, as they work to assemble the 3D printed turbine during the lesson. During and after the lesson, students use the engineering design process to improve their blade designs. Afterwards, they return the kit.

Training	Reusable Training Materials	Total
$200: We Host **$0:** DIY	**$250:** 10 Wind Turbine Reusable Parts Kits + **$50:** Wind Turbine 3D Printable .STL Files	**$500** We Host **$300:** DIY



How STEMInventor 3D Printed Lessons Work

Step 1: STEMInventor Access & 3D Printing

STEMINVENTOR
3D PRINTABLE CONSTRUCTION SYSTEM

- Library Accesses STEMInventor STEM Kit Digital Library
- Library 3D Prints Unlimited* Replicate STEM Kits
- These STEM Kits Become Library Loan Items

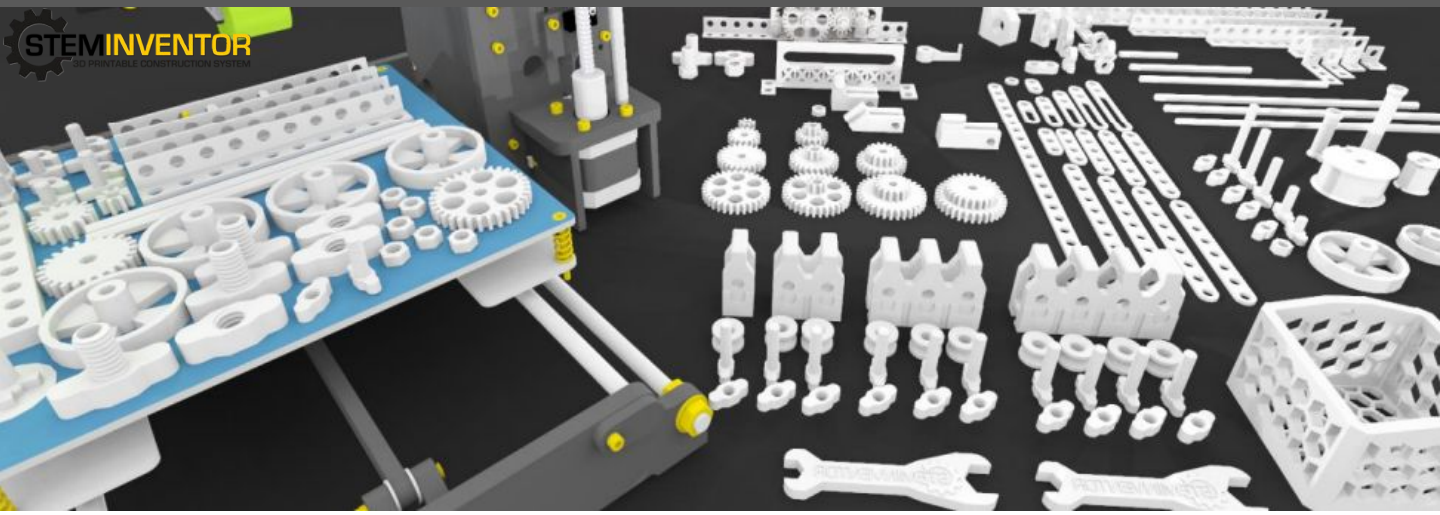
Step 2: Students Check Out 3D Printed STEM Kits

- Unassembled STEM Kit Brought Home
- Broken/Missing Parts? Not a Problem. Library Simply Prints More
- Student Awaits Online Training Date

Step 3: Students Assemble & Test STEM Kit During Virtual Training

- Student Logs Into Webinar At Designated Time
- Students Assemble and Test STEM Kit During Webinar
- Student Keeps Kit for Next Several Days, Optimizing Design Challenge
- Student Returns Kit To Library
- Broken/Missing Parts? Not a Problem. Library Simply Prints More

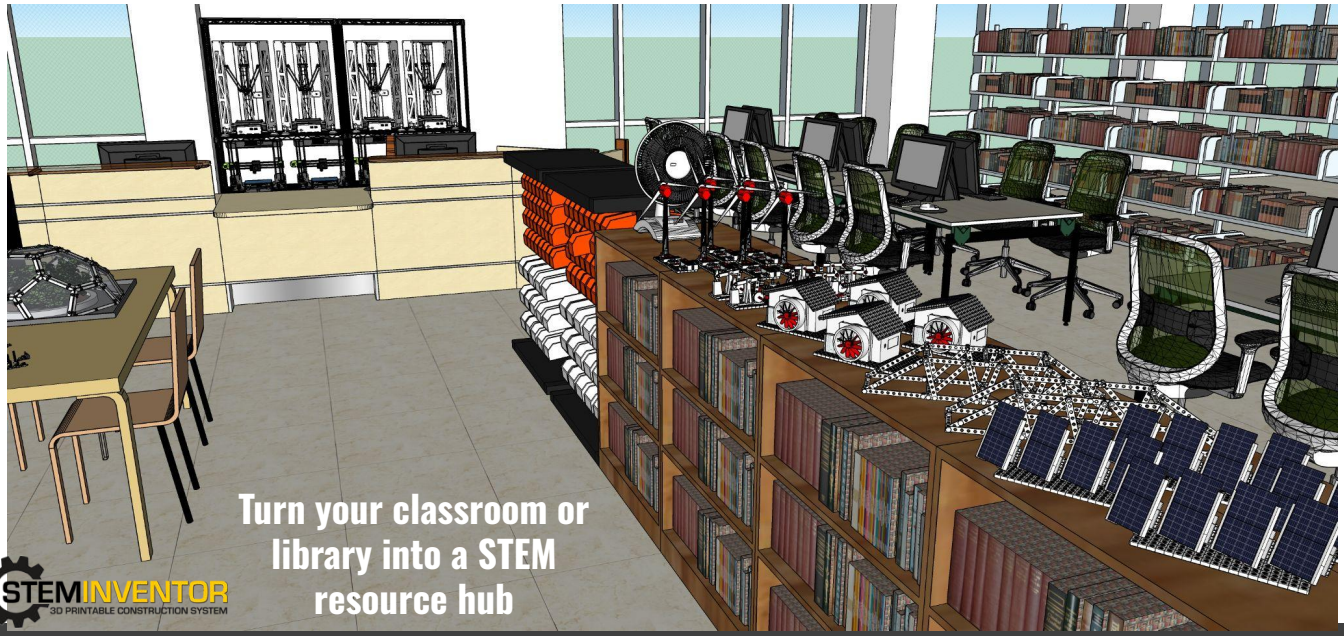
Make-Your-Own 3D Printed STEM Programs & Makerspace Resources



Turn Your Makerspace Into a Low-Cost High-Impact STEM Education Hub!

Title: STEMInventor Single Site Access
Type: 3D Printed Makerspace Resources
Description: The ***STEMInventor Platform*** suite offers a wide variety of easy-to-replicate 3D printable construction components; from wheels, to axles, to gears, pulleys, cams, structural beams, cranks, screws, and more. With hundreds of 3D printed parts to choose from, the possibilities are limitless! Print components for hundreds of patrons/students effortlessly. Replace broken or missing parts by simply printing more. Give away parts to patrons/students that build creations at your facility, then print more for mere pennies. Educators can also use these components to construct their own programs on a variety of STEM-focused topics. Ideal for budget-friendly, hands-on STEM learning
Duration: Self Paced
Format: Students, Educators, & Library Staff build their own STEM inventions, at their convenience
Price:

STEMInventor.com Single Site Access: $239/yr. for access to all digital 3D printable (.STL) files
Parts Kits: Prices Vary. See “Materials Price” column on Page 3 for more details



STONEOAK MEDIA

Augmented Reality & 3D Printing Focused Products and Programs

STONEOAK MEDIA

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