

Hello! We are  PrintLab

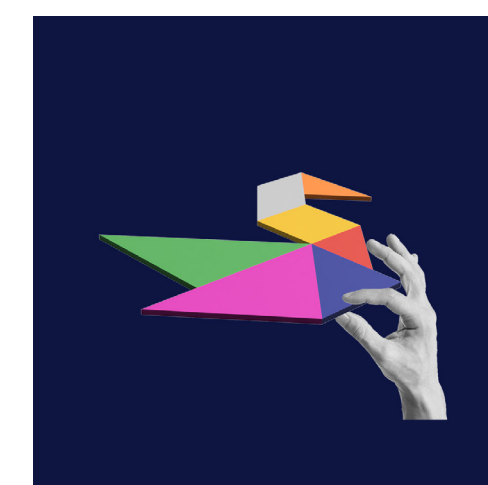
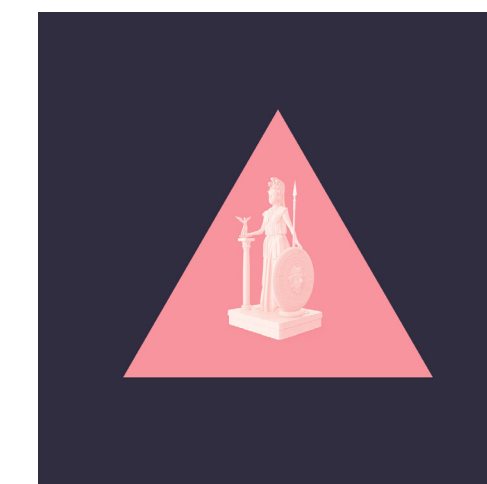
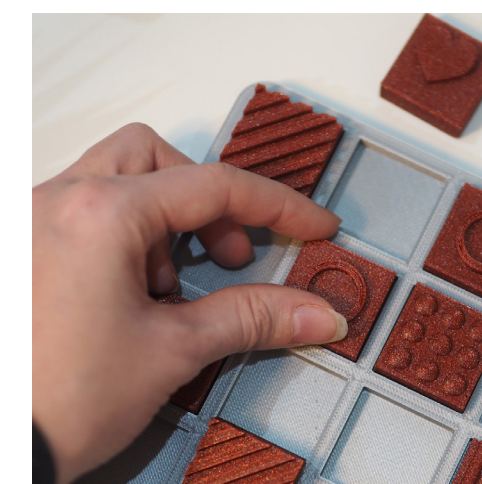
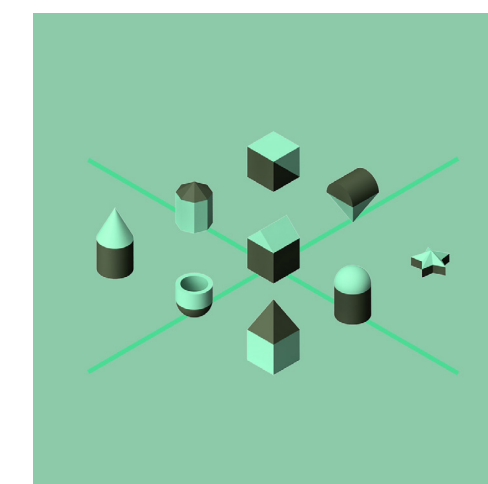
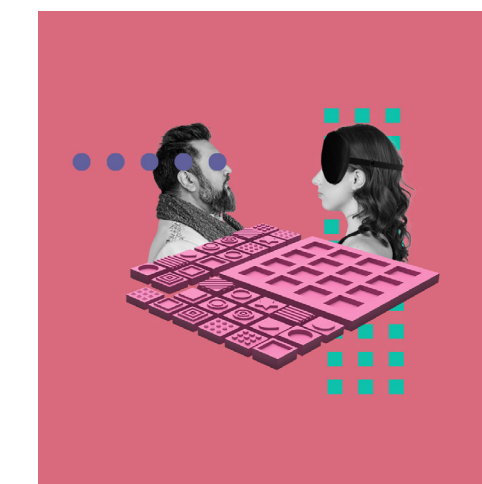
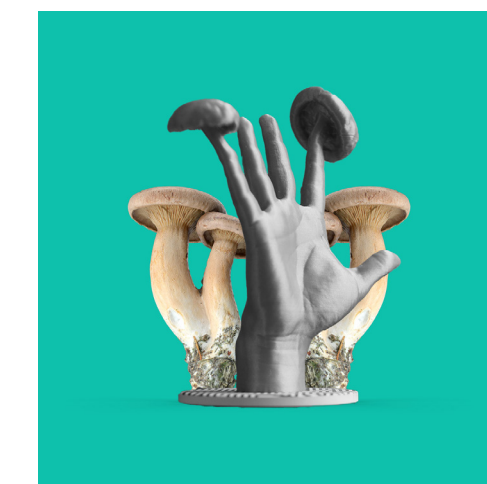
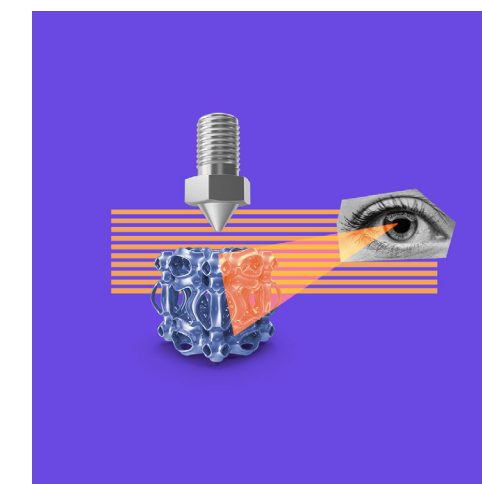
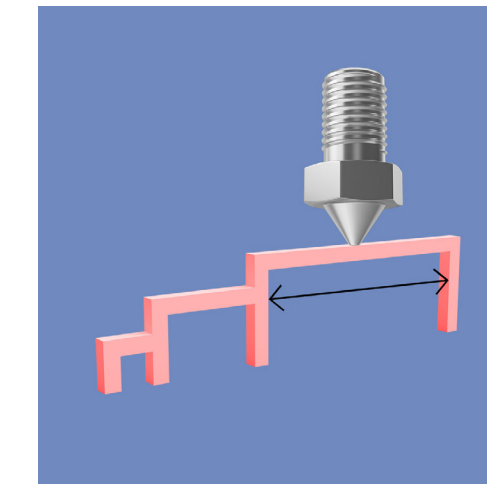
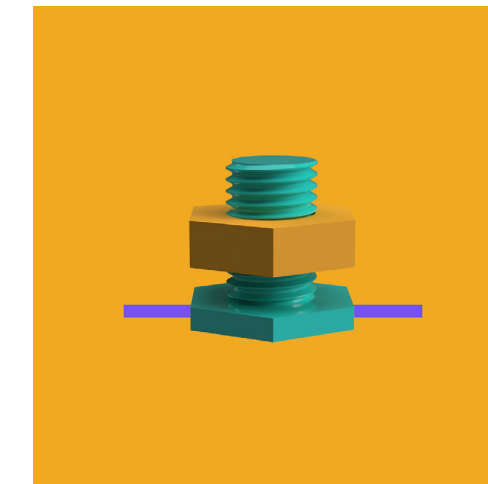
Academic Representative



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[www.TECedu.com](http://www.TECedu.com) | 800-338-2238  
[info@TECedu.com](mailto:info@TECedu.com)

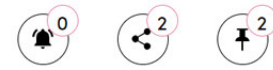
# PrintLab is an online platform that offers courses, tools, and certifications in 3D CAD and 3D printing.

Our mission is to empower educators, students, and makers with industry-recognised skills and credentials, while guiding them in designing meaningful products along the way – whether it's assistive technology, sustainable homeware, or many other innovative solutions enhanced by the customisation of 3D printing.



There are 3 course types available in PrintLab's library, that you can pick and choose from - **mini courses**, **projects** and **challenges**.

New to 3D CAD and 3D printing? Build your skills in mini courses and collect certificates along the way



Mini Courses →

Projects

Assistive Technology

Product Design

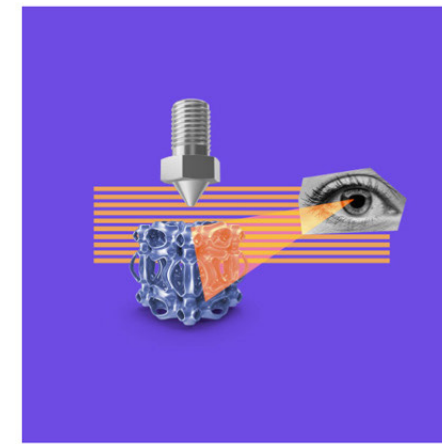
STEM

3D Scanning

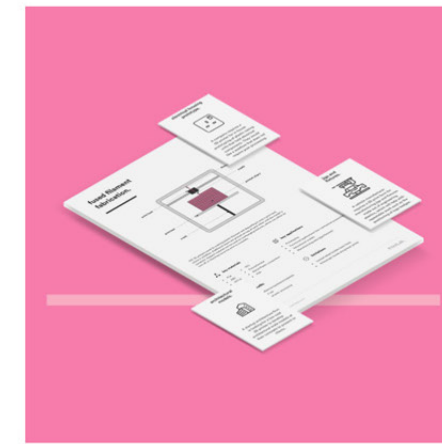
Challenges



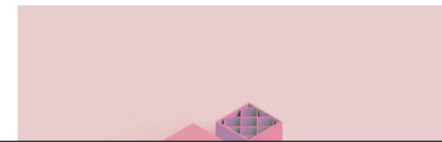
1. PrintLab 3D Printing Certification  
Pathway . Beginner-Advanced . 12+ Hours



2. The 3D Printing Industry  
Mini Course . Beginner . 0.5 Hours



3. 3D Printing Technologies  
Mini Course . Beginner . 1-2 Hours

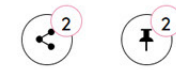


PrintLab

Courses Tools

## 2. The 3D Printing Industry

Course • Mini Courses



Introduction

1. The Technology

2. Rapid Prototyping

3. Local

Manufacturing →

4. On-Demand

5. Customisation

6. Sustainability

7. Access

8. Complexity

Quiz



Sources included in video



Begin by selecting **mini courses** for professional development, before sharing with students.

Mini courses feature informative videos or step-by-step tutorials, building foundational 3D printing knowledge and 3D CAD skills in Tinkercad or Autodesk Fusion (both free for education). Each course ends with a quiz, and you can download a certificate if you score over 70%.

Then move on to **projects**, where students will go through the full creative process.

Projects guide students through each stage of the design process to create products in the fields of assistive technology, product design, and STEM. They offer a blend of online and offline design activities, editable template portfolios, and standards-aligned lesson plans for educators to use in the classroom.



**PrintLab** Courses Tools

### Ergonomic Transformations

Project • 3D Scanning

- Introduction
- 3D Scanning Options
- Transformation Methods
- Skill Building
- Define the Brief
- Design + Make**
- Submit

In this final section, we'll be generating multiple design ideas before selecting one to make through an iterative process. The main activity we'll be using is called 'Real-time Prototyping', which is a way of rapidly creating rough models in a dynamic, free-flowing way. Follow the steps below to complete the project. Remember to document the entire process with photos/videos and notes.

**STEP 1: Clay Model**

Gather the product you will be transforming, together with modelling clay. We recommend using a white air drying clay. Ask your end user to mould the clay around the product in order to create an attachment that is suited to their natural behaviors. Encourage them to refer to the design criteria to ensure they are addressing all the pain points identified.

**STEP 2: Photograph**

When the clay design is complete, photograph the outcome and ask your end user what they like about the design and why they created it in such a way.



## Courses and projects will prepare students for open-ended design **challenges.**

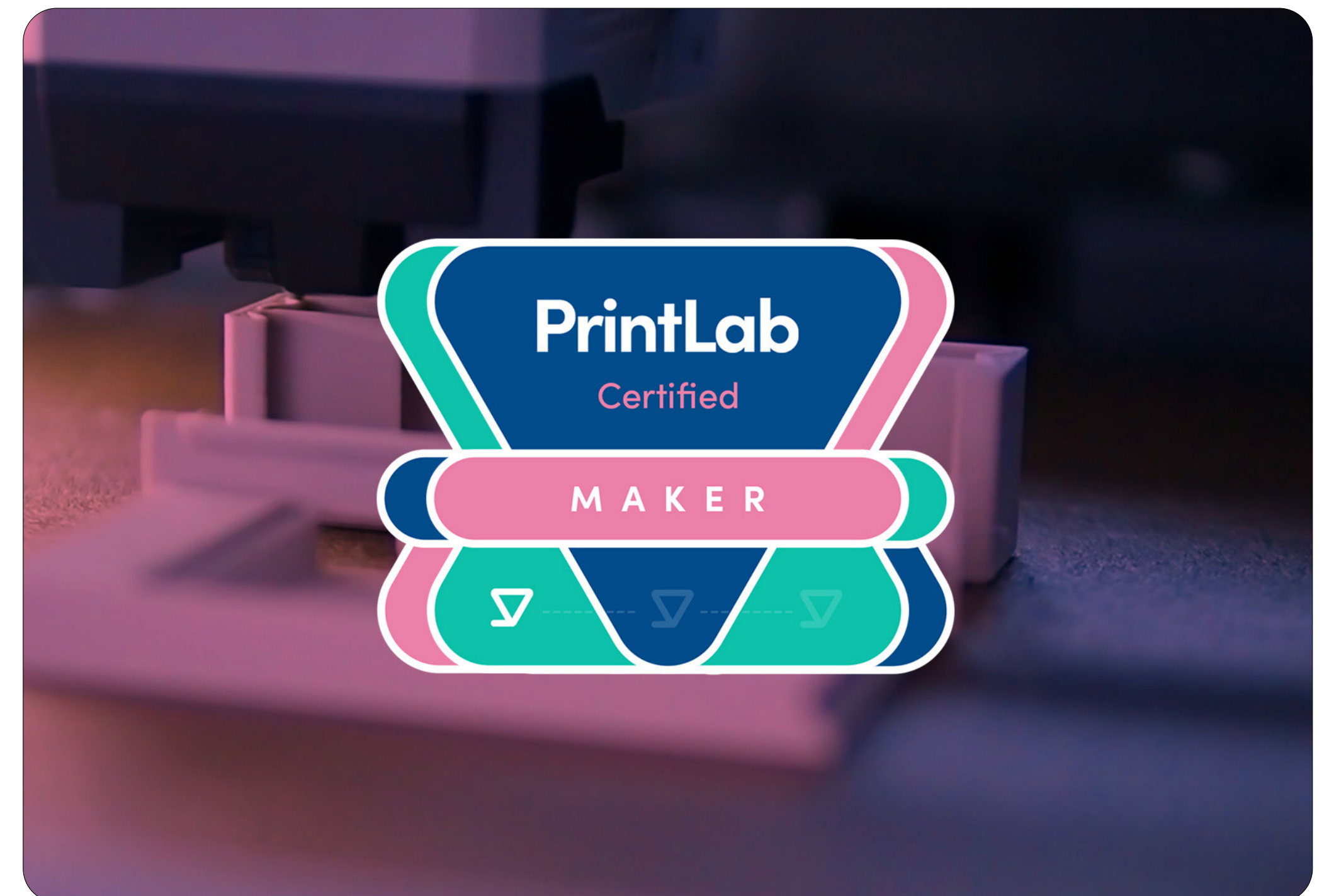
Challenges are live briefs that give students the opportunity to design creative solutions for real organisations and individuals. They offer complete freedom in both product and process, and to support students, they will have full access to our Tools Library—a comprehensive collection of design activities, tips, templates, and tutorials that can assist at any stage of the design process.



While using PrintLab, you can submit evidence of your work and earn **certifications** along the way.

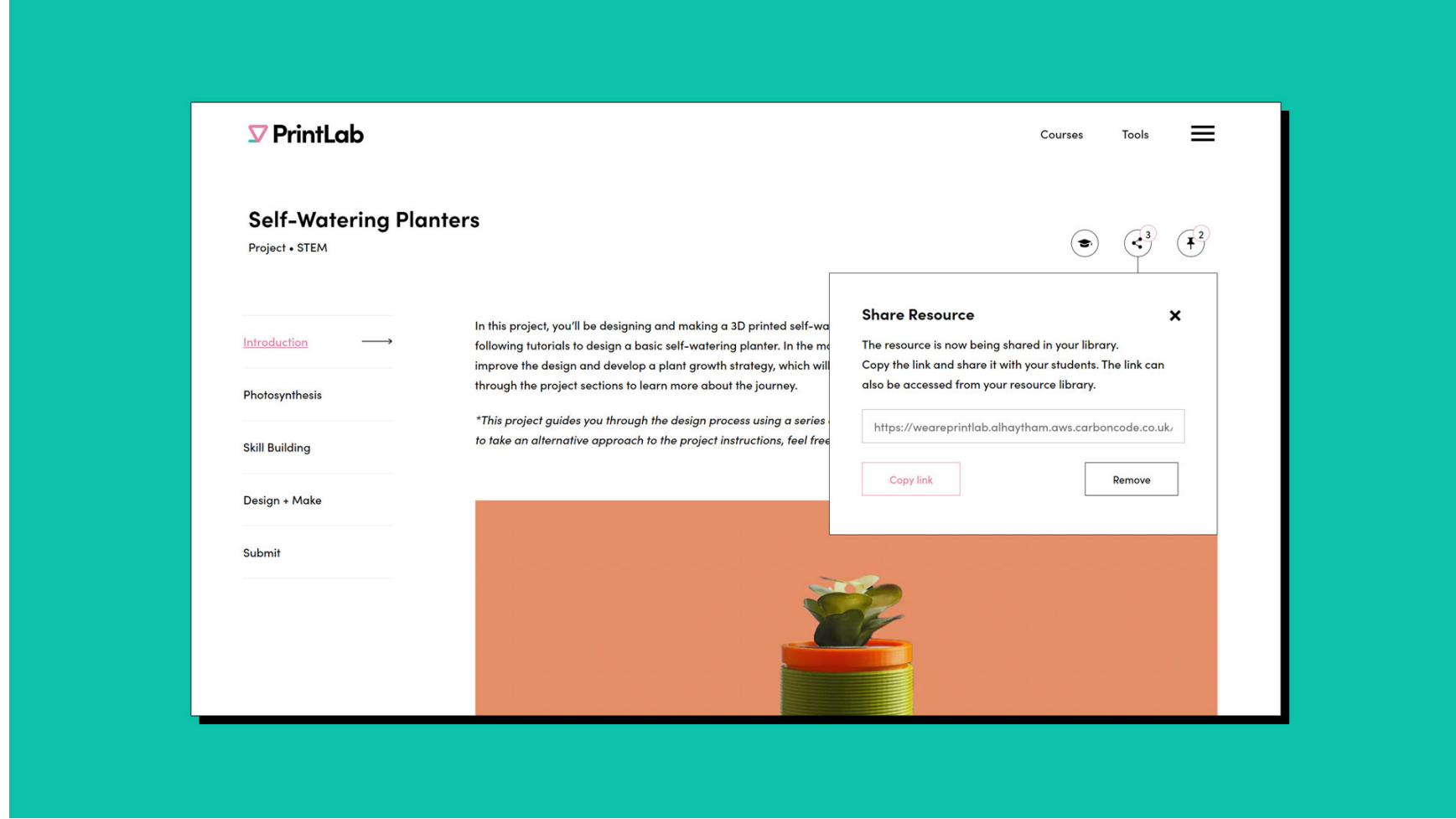
While progressing through mini courses, projects, and challenges - you can earn industry-recognised credentials in the form of digital badges along the way. These verifiable and shareable micro-credentials are ideal for showcasing on your email signature, resume, social media, or digital portfolio, allowing you to highlight your skills to peers, employers, educational institutions, and the broader community.

Digital badges are awarded upon submitting your mini course certificates, as well as example student portfolios and challenge solutions. Additionally, there is a version of the program specifically for students, where they can submit their own work to earn their badges.



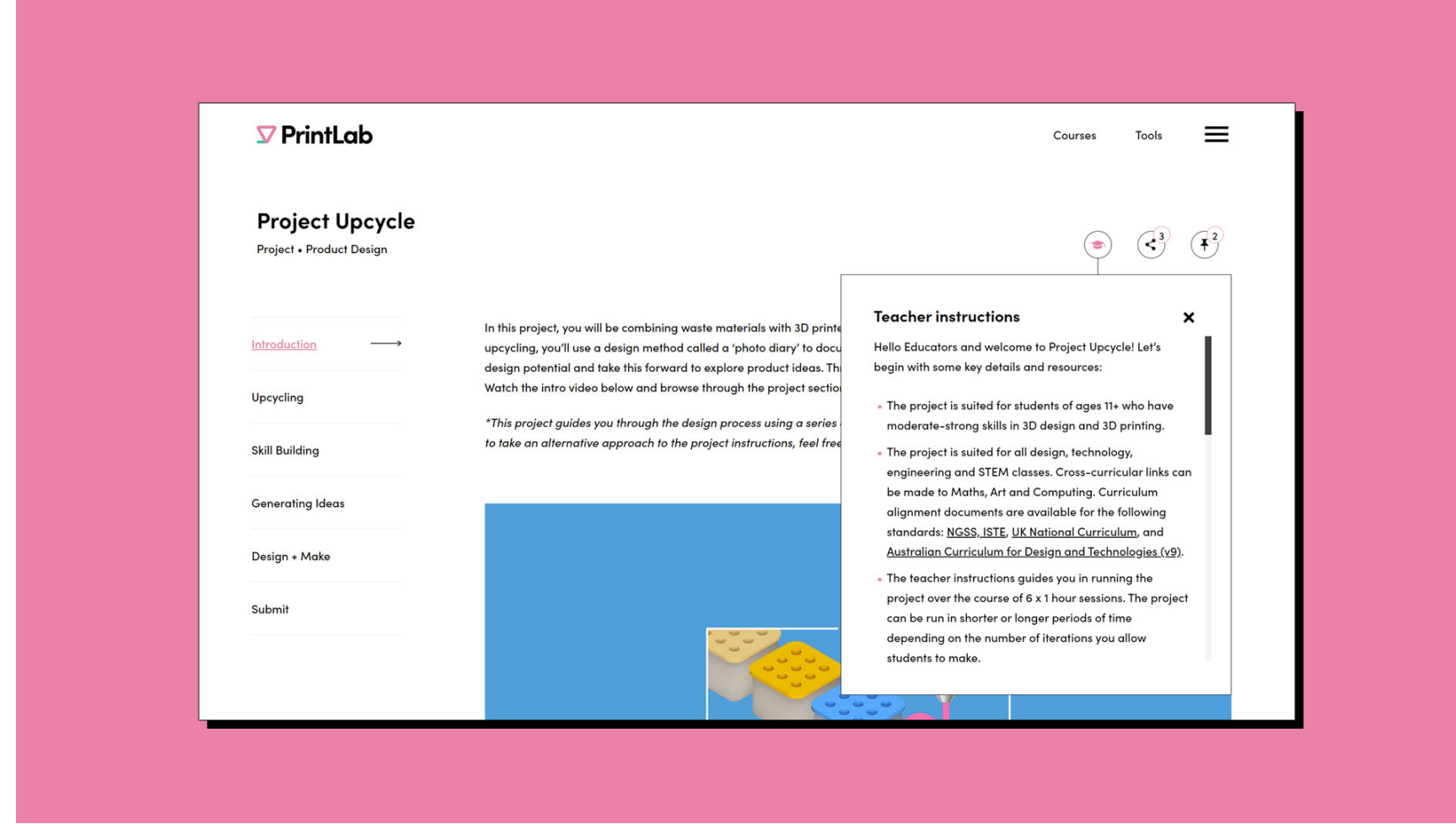
Accelerating the growth of 3D printing in education is at the heart of what we do, which is why we have a range of features designed specifically for educators.





## Share Links

Select a course, generate a share link and send it to your students to give them one-click access to the learning platform. No logins required!



## Teacher Instructions

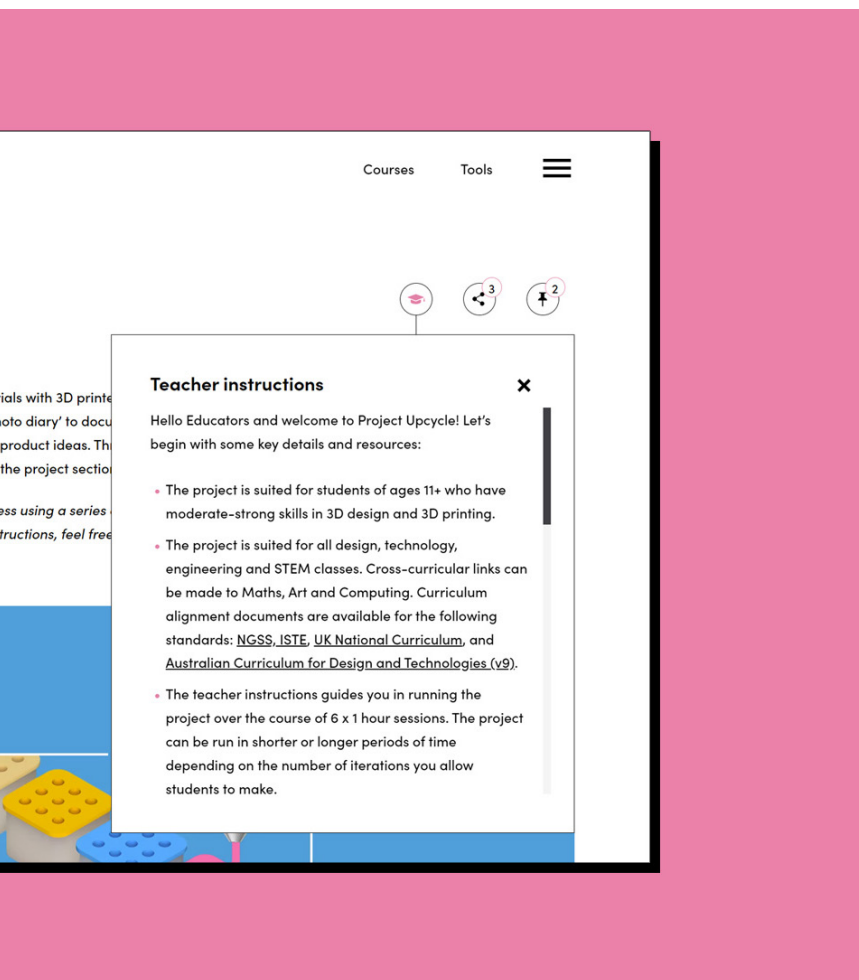
Each course comes with a teacher instructions tab, which provides you with step-by-step lesson plan instructions. As you go through the resource sections, the teacher instructions update accordingly.



## Portfolio Template

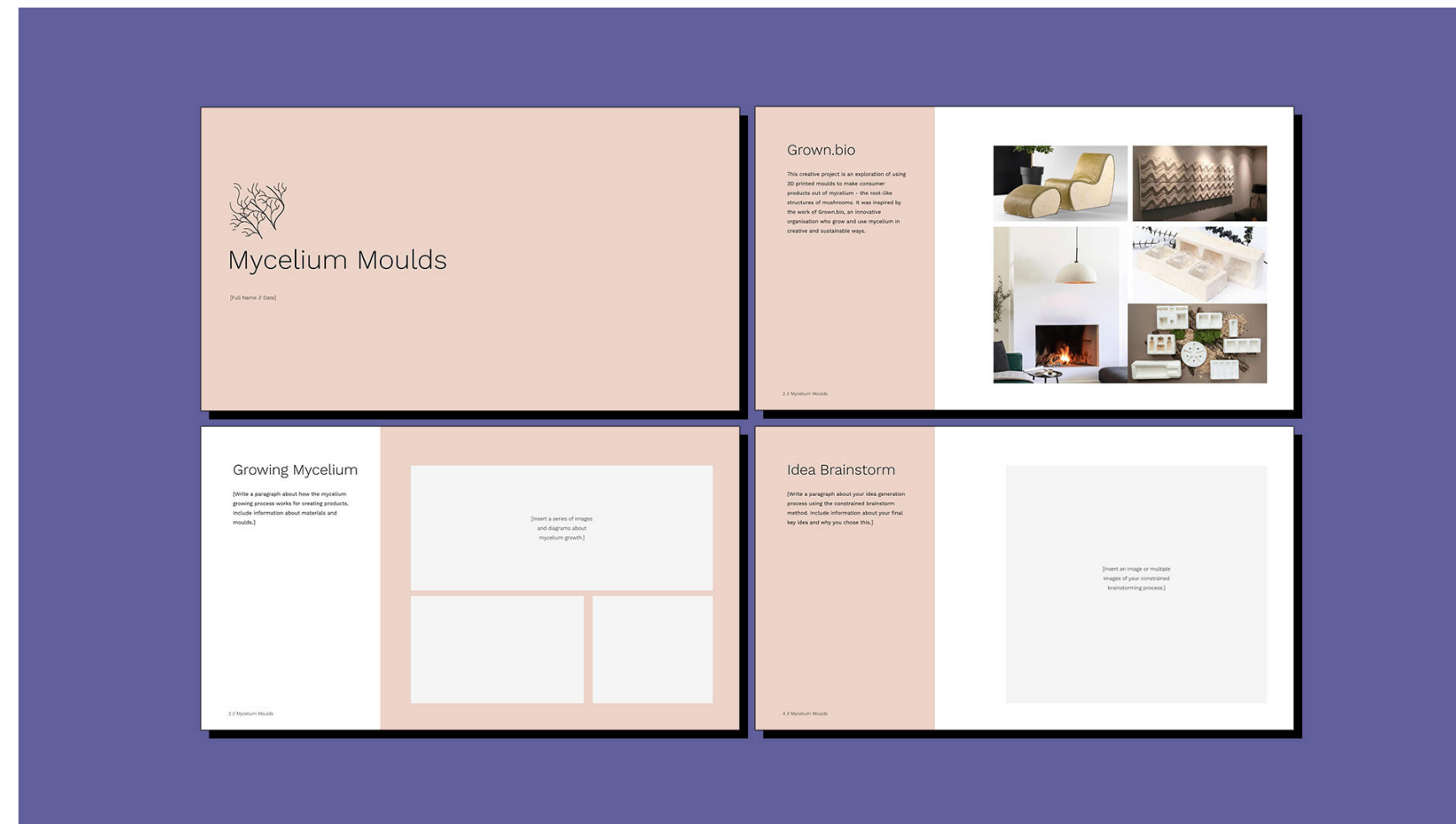
As students move through each stage of the project, the platform guides them in filling in a portfolio template to document their design process - resulting in a portfolio of work.





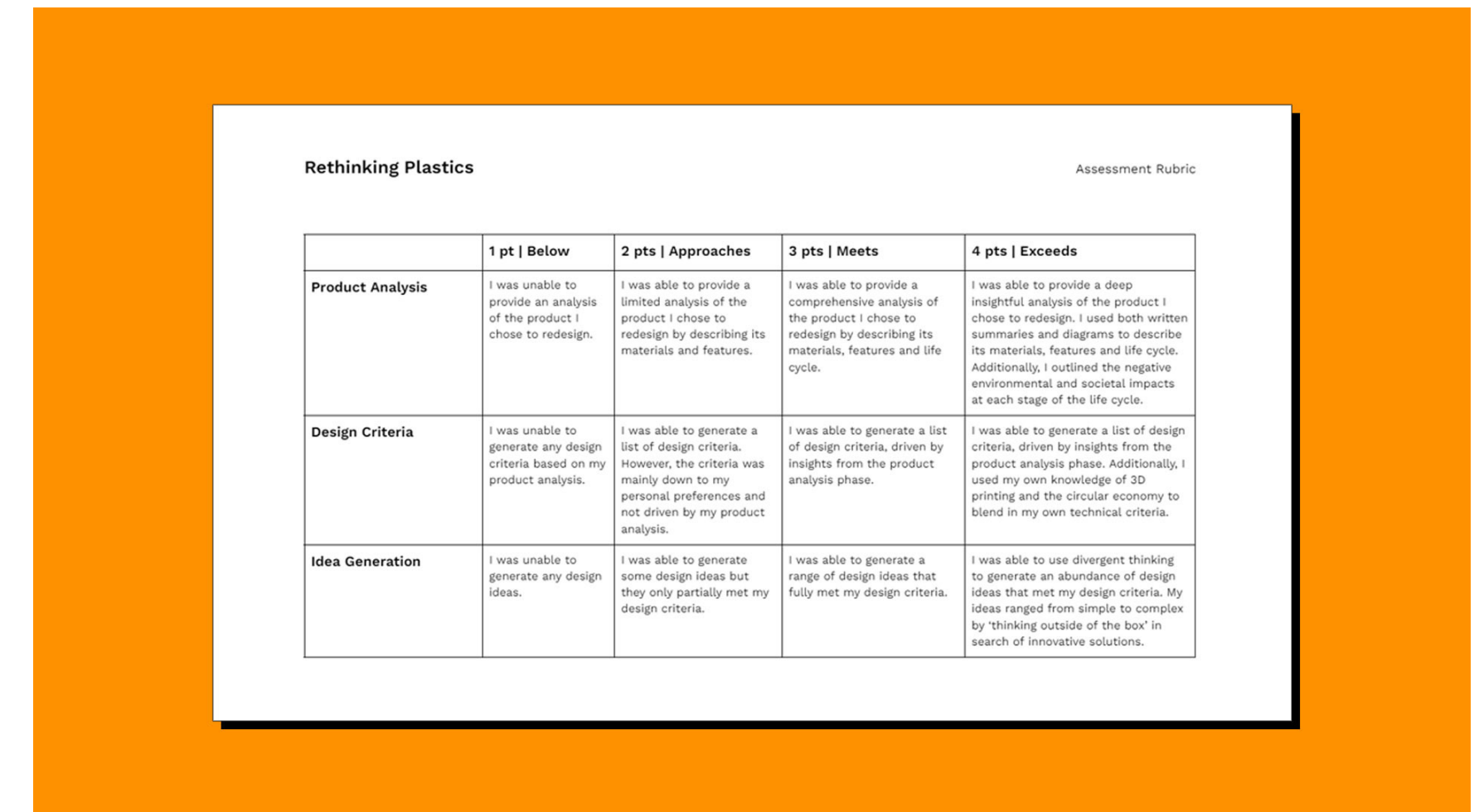
## Instructions

er instructions tab, which provides instructions. As you go through the instructions update accordingly.



## Portfolio Templates

As students move through each stage of a project, the learning platform guides them in filling in a Google Slides template to document their design process - resulting in a beautiful and professional portfolio of work.



## Assessment Resources










Our curriculum is aligned to the following standards: NGSS, ISTE, UK National Curriculum, New Zealand Curriculum and Australian Curriculum for Design and Technologies (v9). Resources come with both curriculum alignment documents and editable assessment rubrics, which can be used to grade student portfolios.



# License Options.

## Teacher License: \$299 (1 Year Access)

PrintLab's Teacher License is for individual teachers and STEM instructors. It provides you with 1 teacher account and all the content/features listed in the table opposite.

 Mini courses	 Tools library	 Assessment rubrics
 Design projects	 Standards-aligned lesson plans	 Share 3 resources at a time
 Design challenges	 Portfolio templates	 Certification (1 teacher, 35 students)

## Site License: \$999 (1 Year Access)

UNLIMITED teacher licenses, UNLIMITED certifications for teachers and students, and each teacher can share UNLIMITED resources with students. \*Please note that all teachers and students must be part of the same individual school and all licenses expire exactly 1 year after the first license is activated. For multiple schools or district pricing, please contact us for a bespoke quote.

Generate up to 3 share links at any one time.  
Share links only give access to the specific resource shared and up to 35 people can use an individual share link at any one time.

# Frequently Asked Questions.

## What equipment do I need?

To make the most out of your PrintLab experience, you'll need access to a 3D printers, filament and computers with internet access. In terms of software to design 3D models, you can either use Tinkercad (for beginners) or Fusion (for intermediate-advanced users). Both options are developed by Autodesk and are completely free for education.

## What order do I teach the resources in?

PrintLab was built as a flexible library of resources that you can pick and choose from depending on your curriculum requirements, student skill level and personal preference. We do however recommend following the certification pathway by starting with a selection of mini courses, progressing to projects, and finally tackling challenges for a comprehensive learning experience.

## What age group is PrintLab for?

PrintLab resources are suitable for users of ages 10+. Our customers range from Elementary/Primary schools to top-tier Universities. In the teacher instructions (where relevant), we suggest various ways in which you can adapt projects and challenges for both younger/beginner students and older/advanced students.

## What subjects is PrintLab for?

Many of our users teach Design, Technology or Engineering classes but several projects have cross-curricular links to other subjects, such as Science, History and Geography. We have seen great success with our site license users, where Design teachers provide support and guidance for teachers in other subjects.

## How does it work for makerspaces not part of schools?

Makerspaces can utilise PrintLab just like schools, with instructors taking on the role of teachers to offer in-person workshops and certifications to members. Alternatively, you can share resources online, allowing members to complete courses at their own pace and then bring their creations to life using your makerspace's 3D printers.

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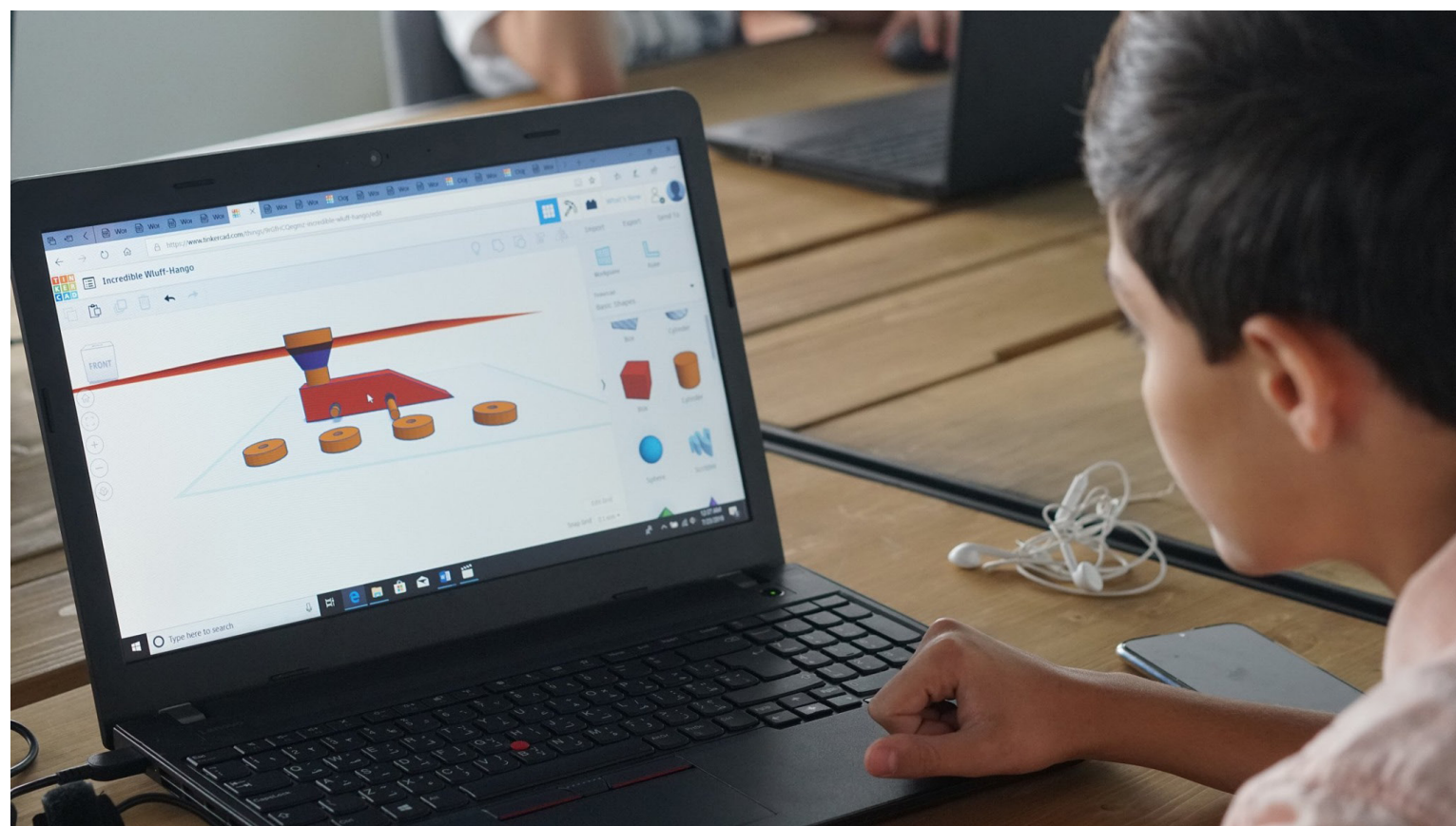
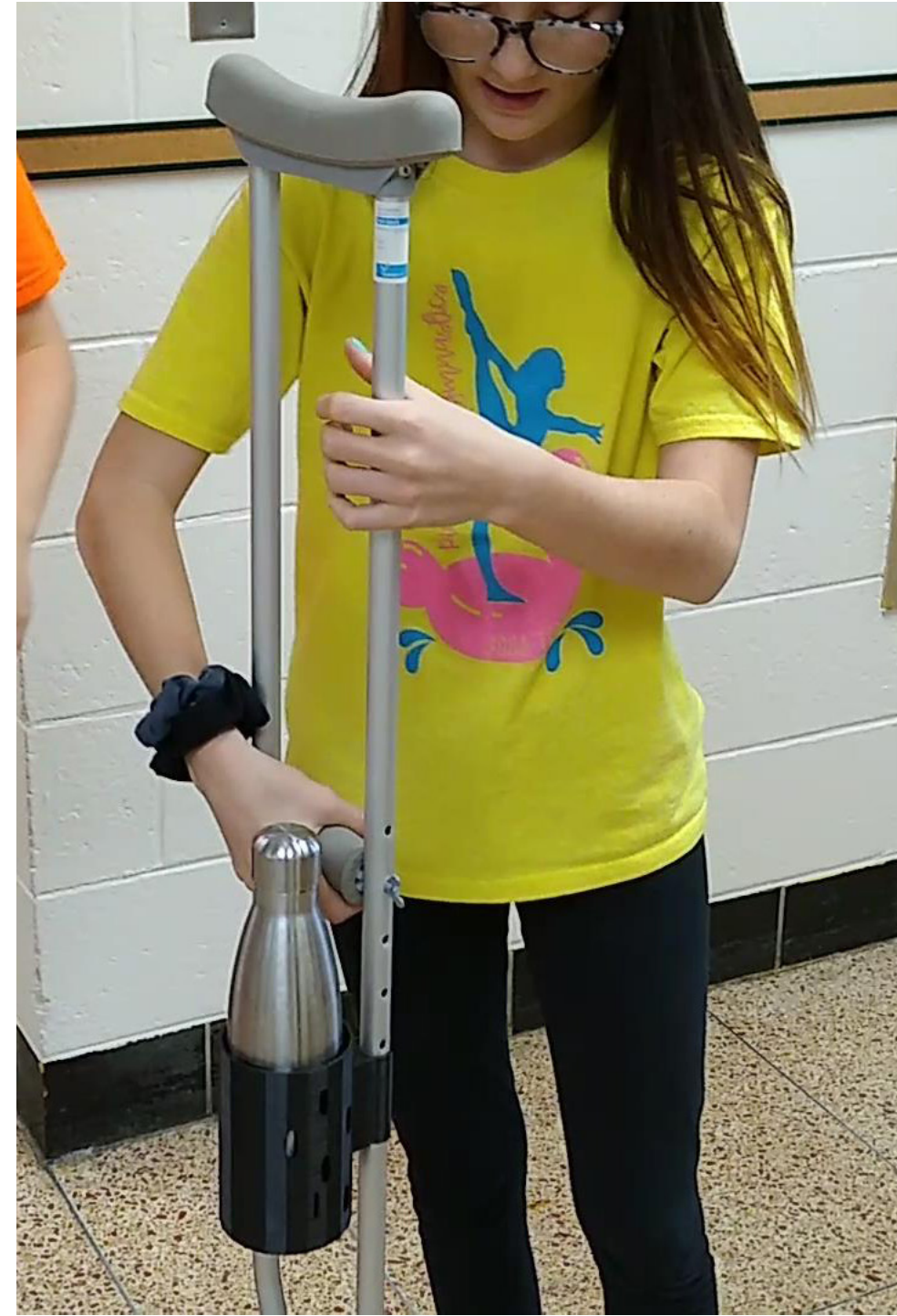
So, I just love what these guys are doing! They definitely have a grasp of what is needed in the classroom for sure. I feel like everything is laid out perfectly here. This would be something that I feel like I wouldn't really have to tweak at all. Honestly, with the future unknown, this content would be priceless for teachers like me. From what I have seen from this company, they are doing a phenomenal job! I highly recommend it!

Bill White, Avonworth School

“

I was just selected as District Teacher of the Year and will be competing at the regional level in the coming months. Your curriculum has played a big role in my success, so I appreciate you so much. The assistive device lesson has led me to a partnership with the high school nursing program and their connection to local nursing homes. I'm so excited to see where that relationship leads. So many career connections!

Becky Wynne, Maryville Middle School



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[www.weareprintlab.com](http://www.weareprintlab.com)

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