

Hello! We are  PrintLab

Academic Representative



**Technology Education Concepts**

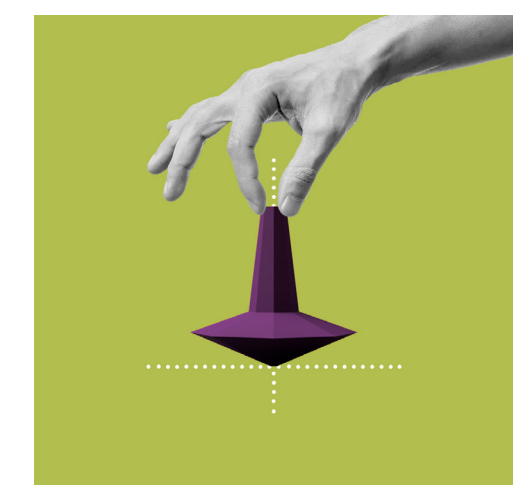
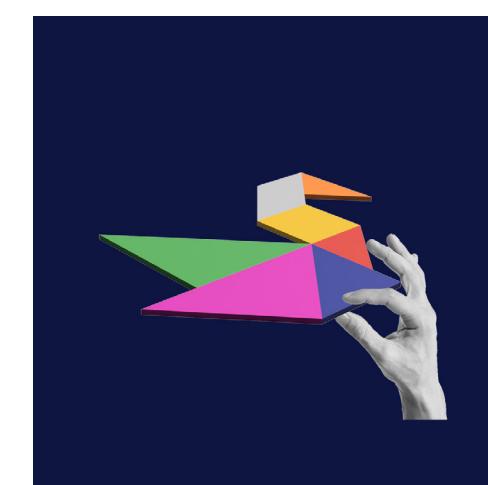
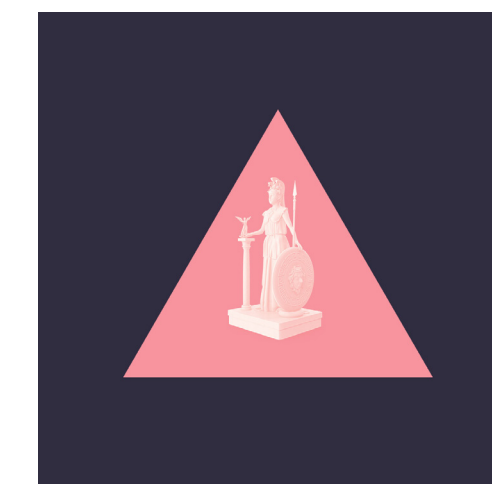
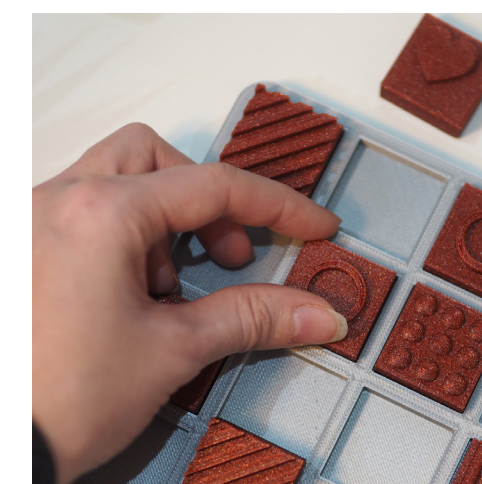
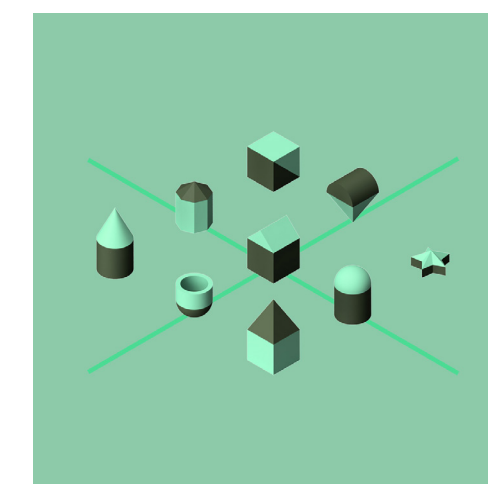
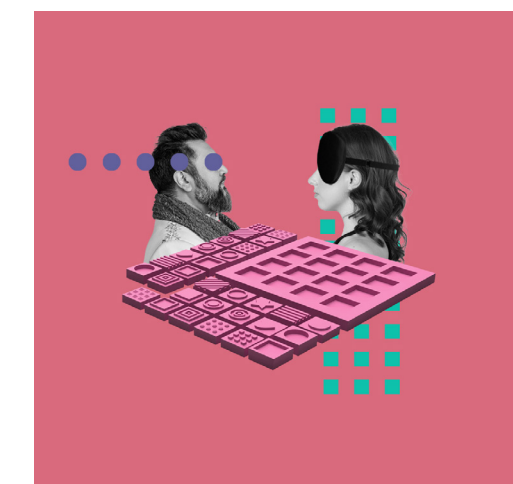
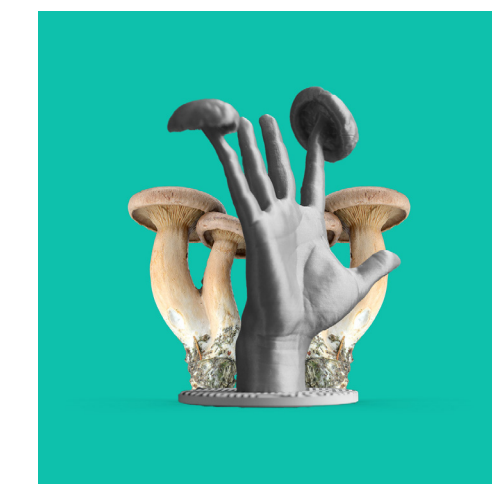
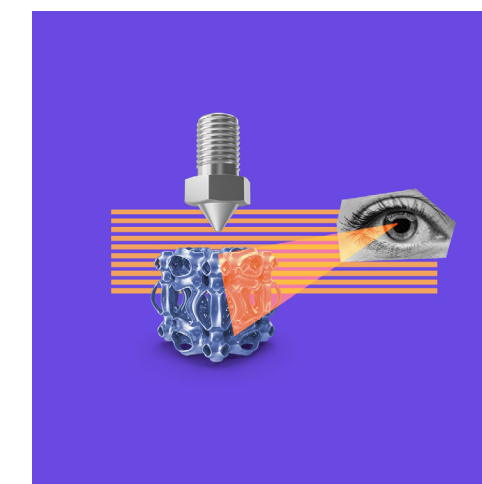
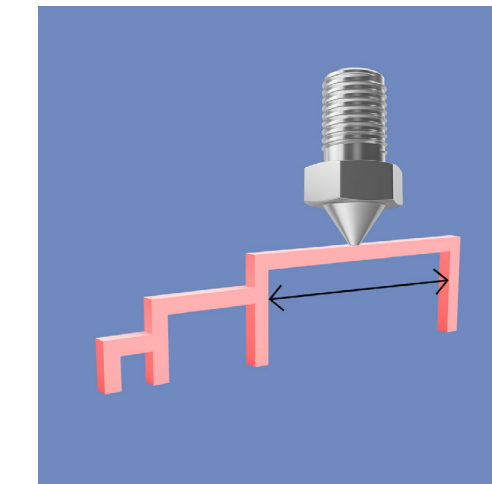
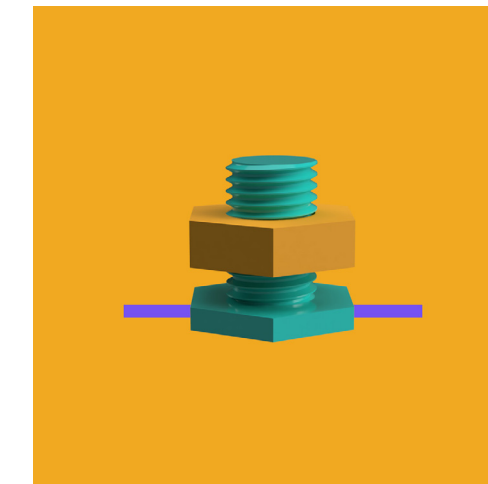
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3D printing is making huge waves across every industry sector – and we believe anyone can learn how to use this exciting technology to bring value to the world.

# PrintLab is an online platform of 3D printing courses, projects and design challenges.

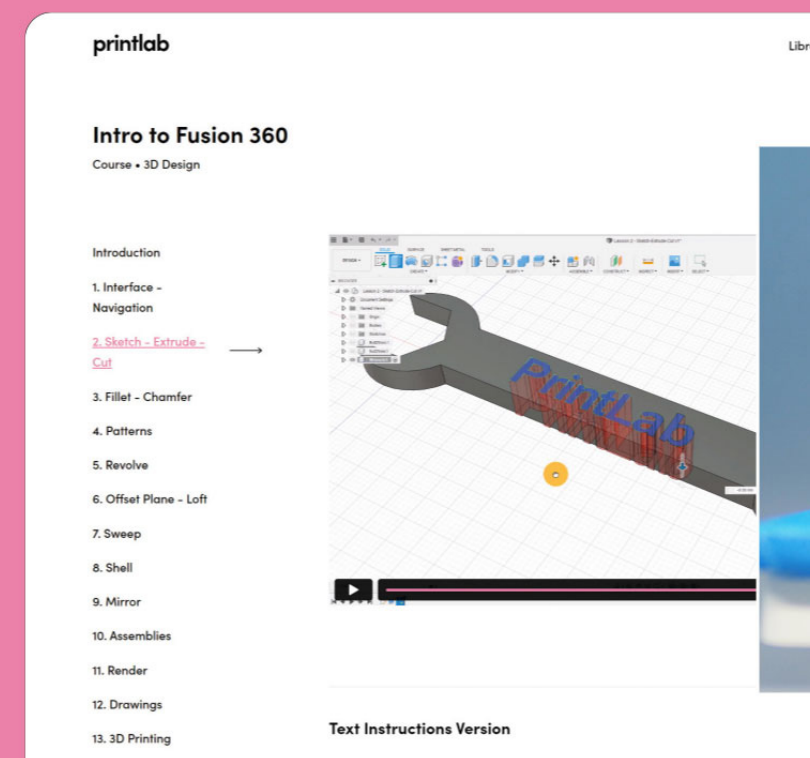
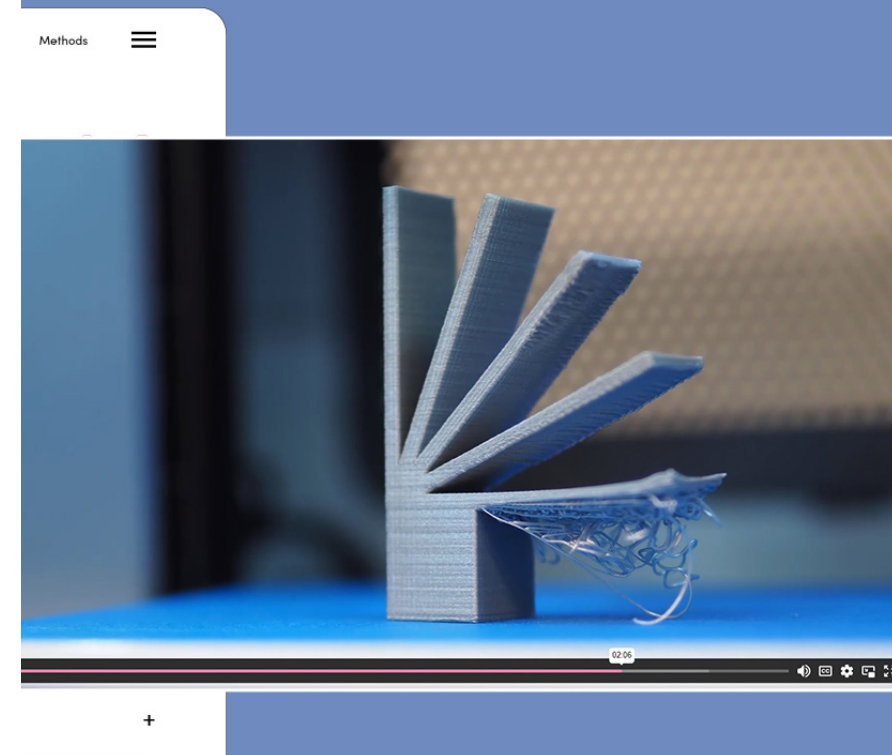
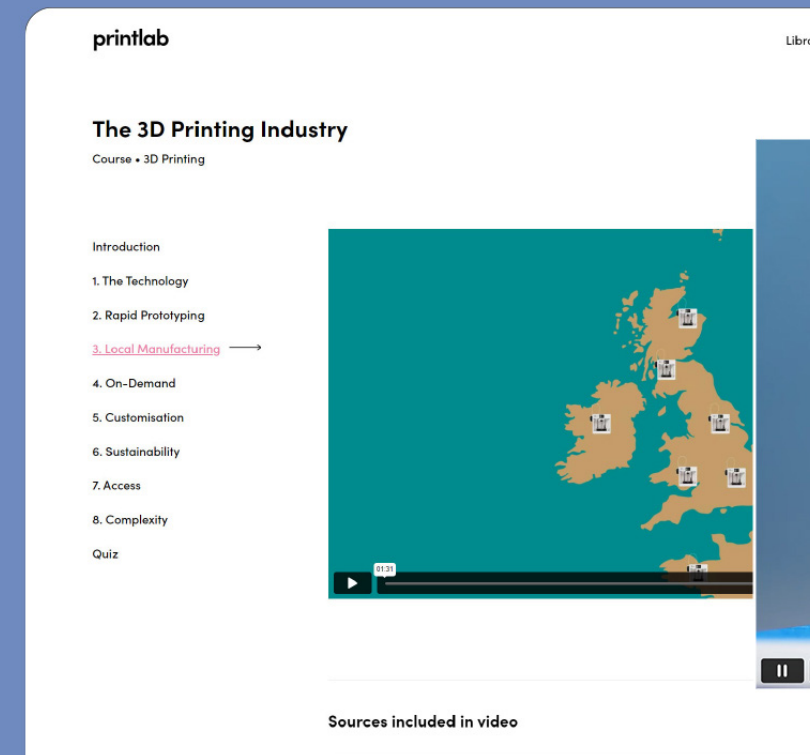
We guide people through the full creative process to make their own unique products – from personalised homeware to architectural models, assistive technology and many other solutions that benefit from the customisation that 3D printing offers.





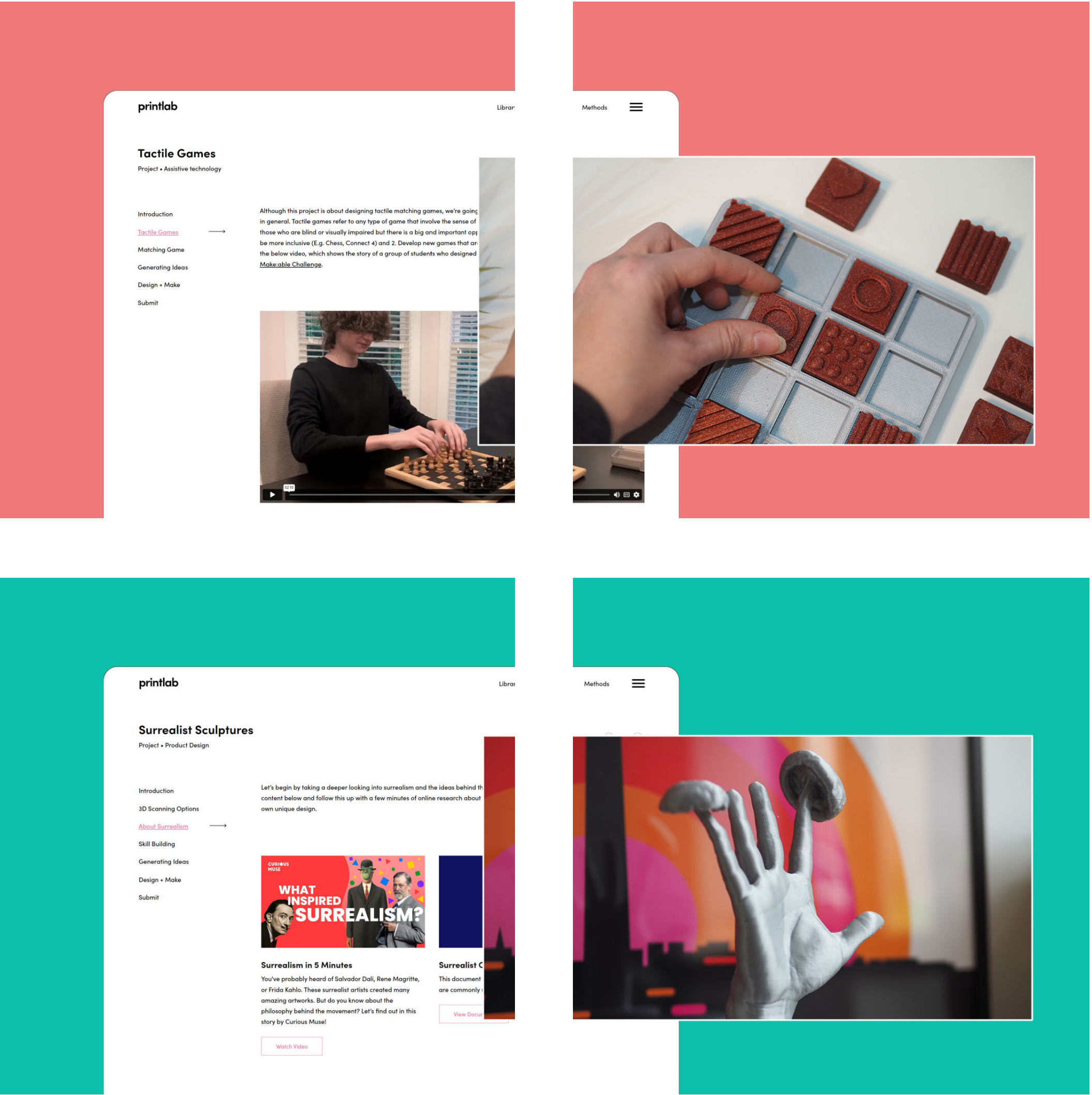
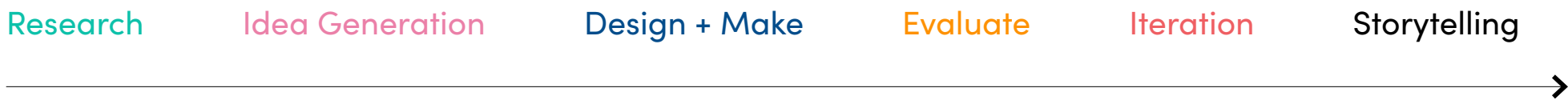
Begin by selecting **mini courses** to build foundational knowledge and technical skills.

After learning about the 3D printing process and industry, take on our 3D design mini courses to learn how to design your own 3D models from scratch. Our courses teach you how to use either Tinkercad (beginner) or Fusion 360 (intermediate) software - both options are completely free for education.



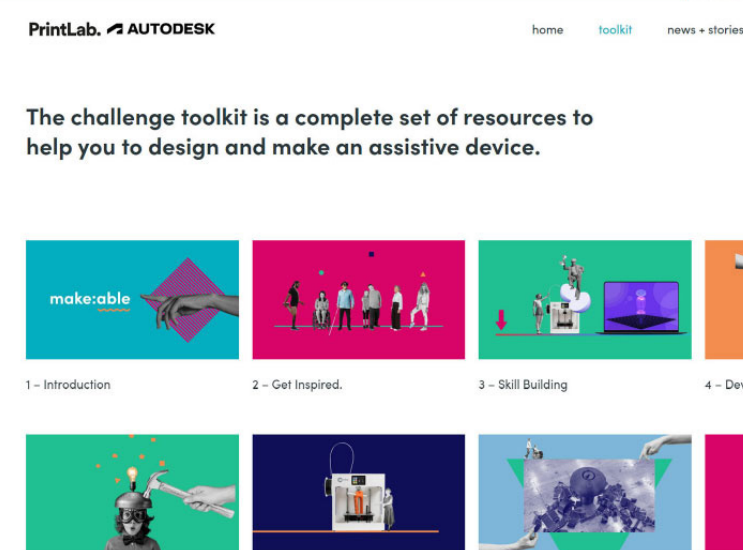
Then move on to participate in projects, where you'll go through the full creative process.

Projects guide you through each stage of the design process to make specific types of products in the fields of assistive technology, customised product design and STEM. They include a brief, background information, 3D design tutorials, portfolio templates and instructions on implementing various design methods such as user interviews, brainstorming, idea sketches, product evaluations and more.





## Make:able 2023



Courses and projects will prepare you for open-ended design challenges.

Challenges are global design competitions (with prizes!) where you will solve a real-world problem with 3D printing. Challenge briefs are broad and open-ended, giving you complete freedom in both the product created and the design process undertaken. Our first challenge is Make:able - a yearly assistive technology design competition. Additional challenges will be launched in due course.

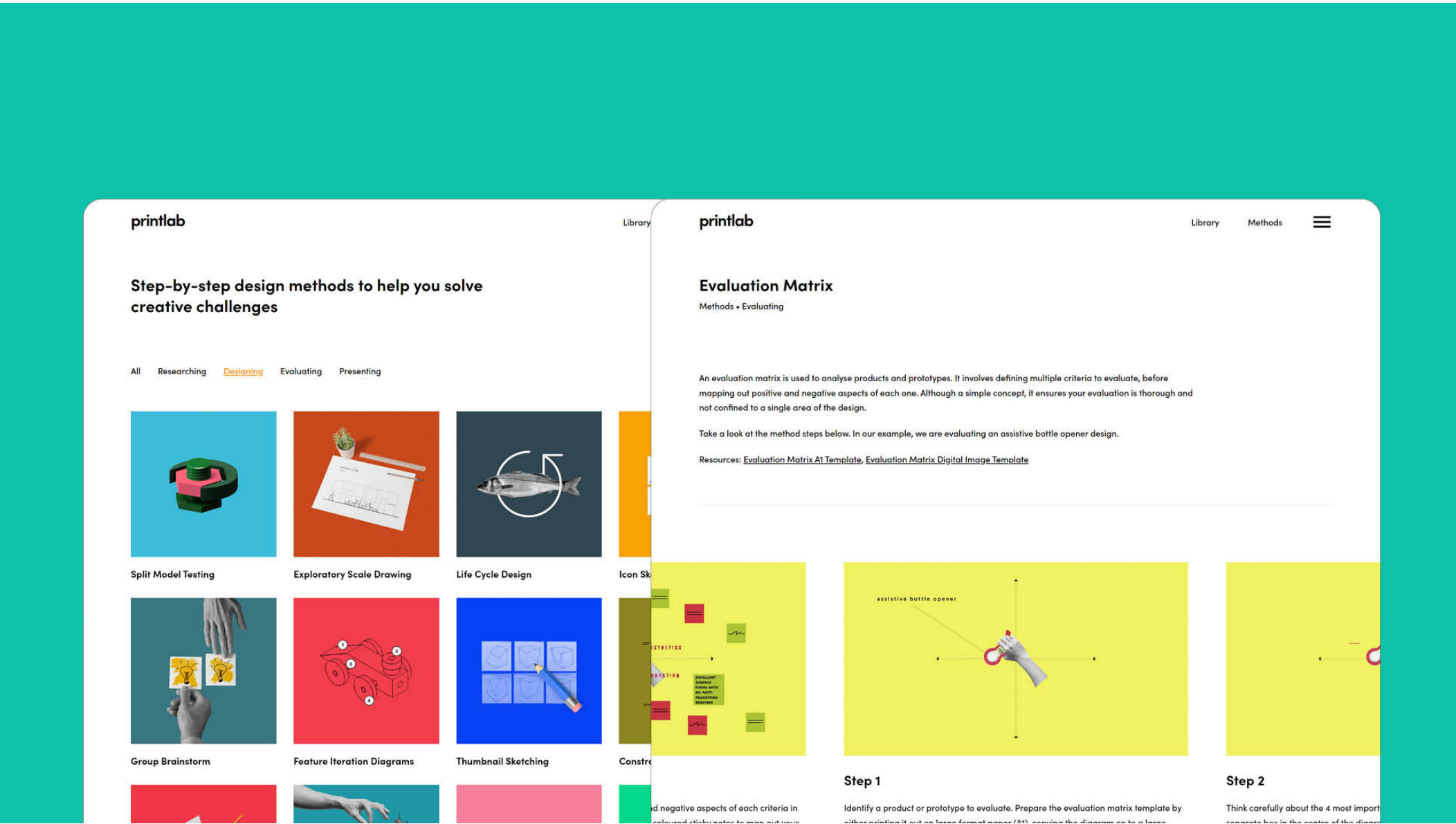




# The Design Method Toolkit is designed to be used whilst working on projects or challenges.

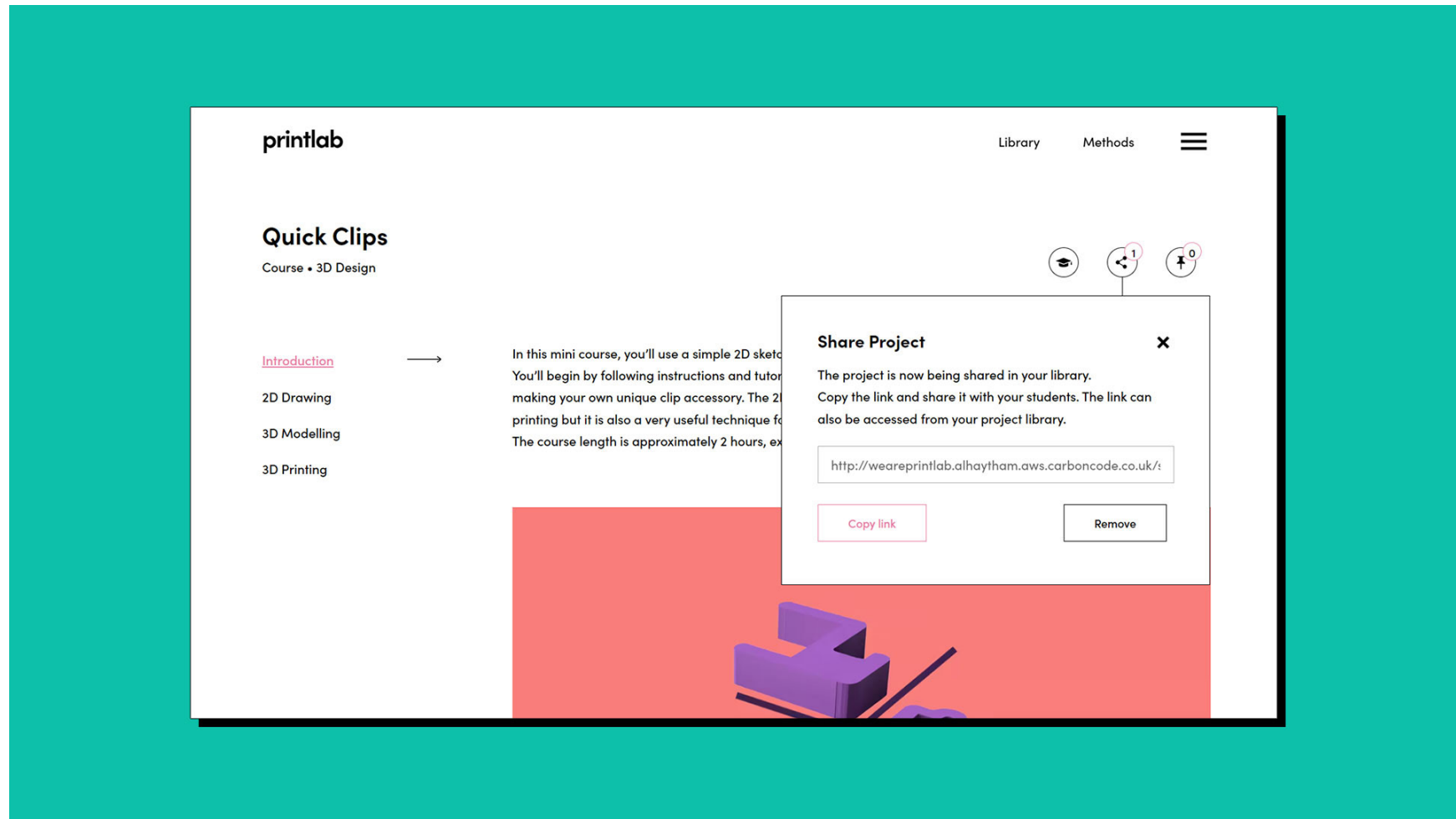
It provides you with a range of step-by-step problem-solving and design activities that can be used at each stage of the design process – whether it’s to research topics, generate ideas, design prototypes, evaluate solutions or present work.

Although PrintLab projects guide you in using a pre-defined set of design methods, you can adapt projects by selecting your own methods and design process. The toolkit can also be used to tackle PrintLab’s Make:able Challenge or challenges in your own day-to-day life.



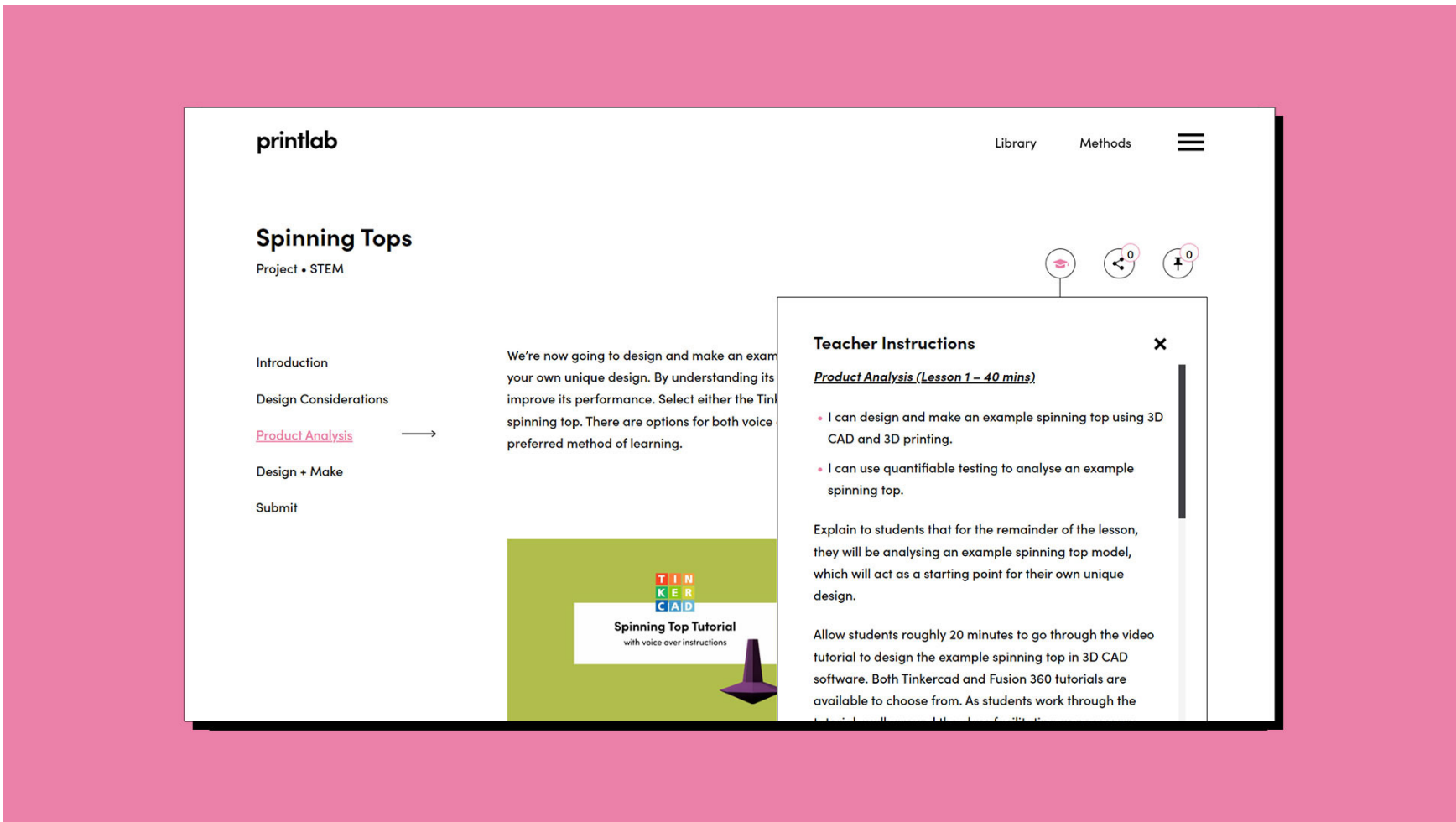
Accelerating the growth of 3D printing in education is at the heart of what we do, which is why we have a range of features designed specifically for educators.





# Share Links

Select a resource, 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

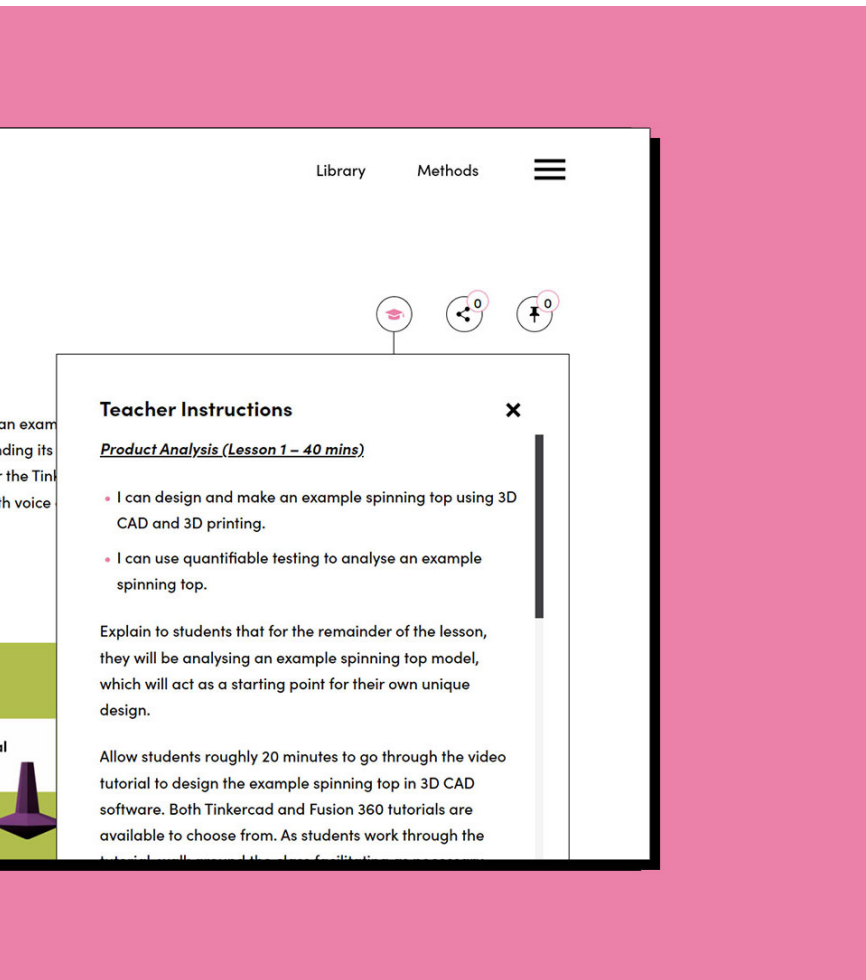
Each resource comes with a teacher instructions tab, which provides you with step-by-step lesson plan instructions. As you go through the resource sections, the teacher instructions update accordingly.



# Portfolio Template

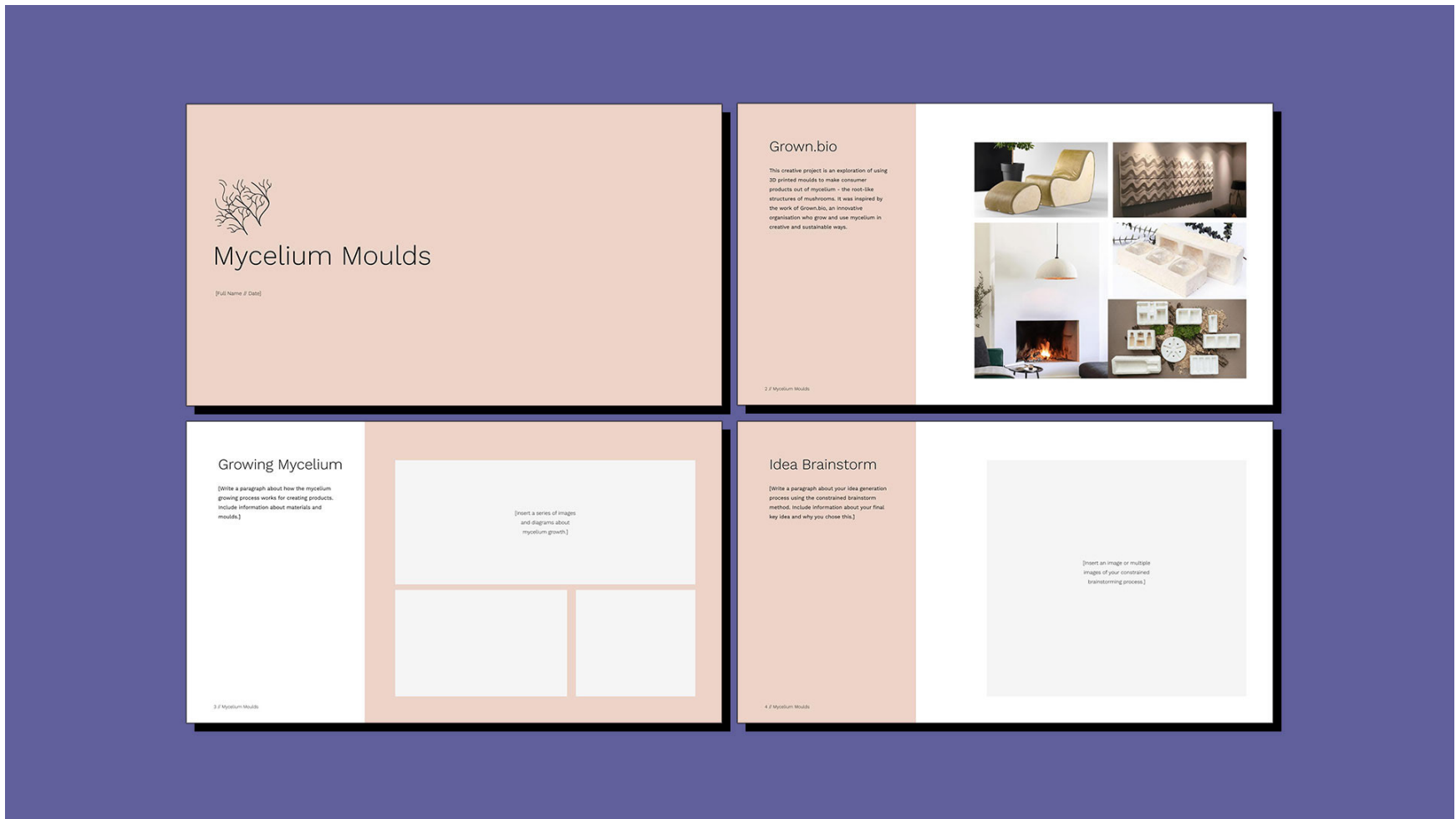
As students move through each stage of the design process, the platform guides them in filling in a portfolio template. This results in a portfolio of work.





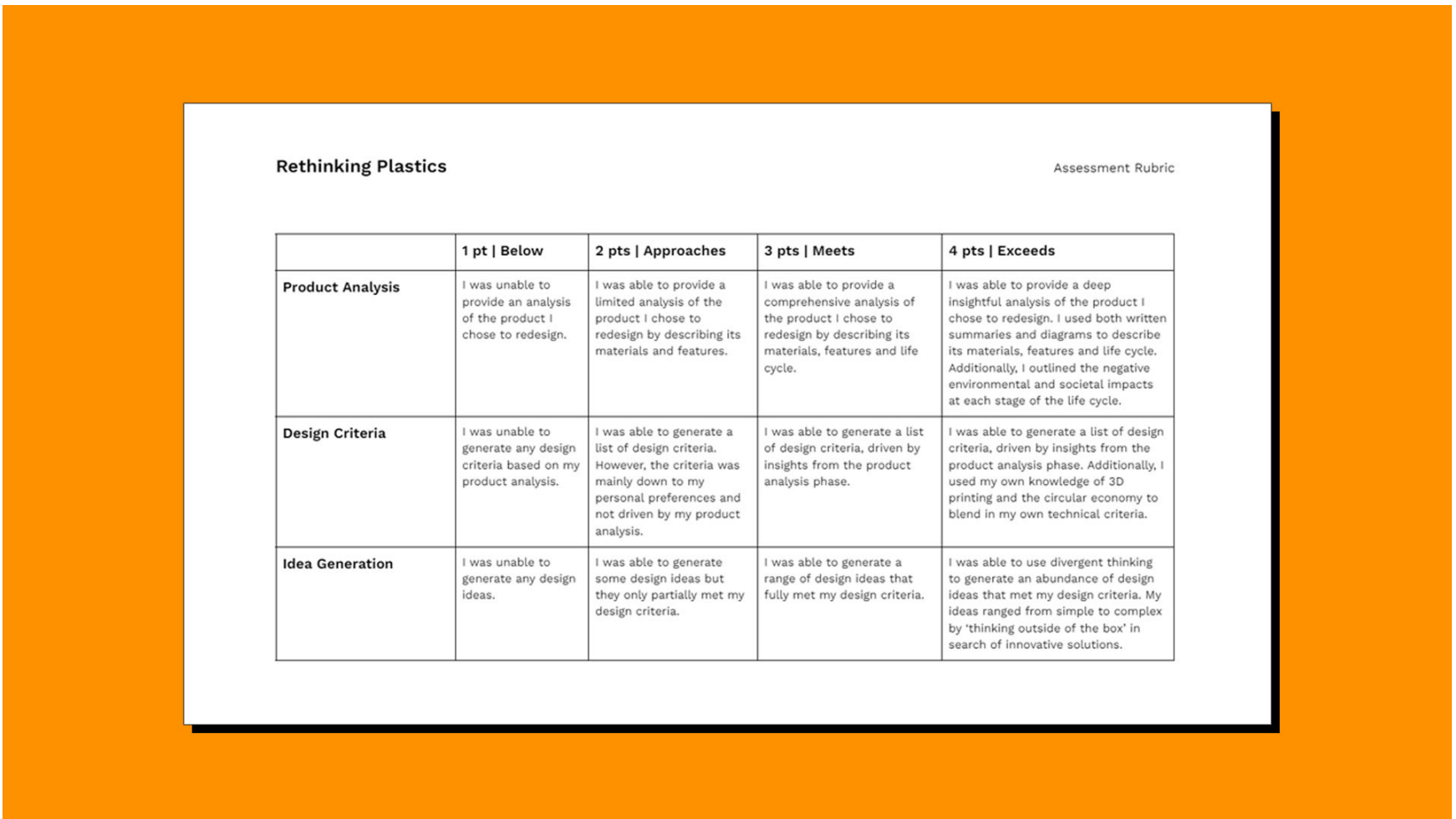
# ctions

er instructions tab, which provides  
structions. As you go through the  
ctions 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, 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: (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 below.

## Site License: (1 Year Access)

PrintLab’s Site License is for schools, libraries, makerspaces and STEM organisations. It includes up to 6 x teacher licenses - each of which consists of all the content/features listed in the table below. \*All licenses expire exactly 1 year after the first license is activated.

 Mini courses	 Design method toolkit	 Assessment rubrics
 Design Projects	 Standards-aligned lesson plans	 Share 3 resources at a time
 Design Challenges	 Portfolio templates	 Monthly Additions

→ 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.

## Is there training for teachers?

PrintLab resources aren't just for students, they are a great way for educators to learn new skills. And by delivering PrintLab projects in the classroom and submitting example student portfolios, you can become a PrintLab Certified Educator through our certification programme.

## 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 have a pathway of resources that we recommend for those who are new to 3D design and 3D printing. We call this the 'Fundamentals Pathway' and information on delivering this pathway is provided in the user guide.

## What age group is PrintLab for?

PrintLab resources are suitable for users of ages 10+. 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.

## What type of 3D printer is required to use PrintLab?

Our curriculum is suitable for use with any FFF (fused filament fabrication) 3D printer. Our resources do not cover how to use specific machines but provide generic guidance and 3D printing tips, which apply to all FFF 3D printers.



“

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!

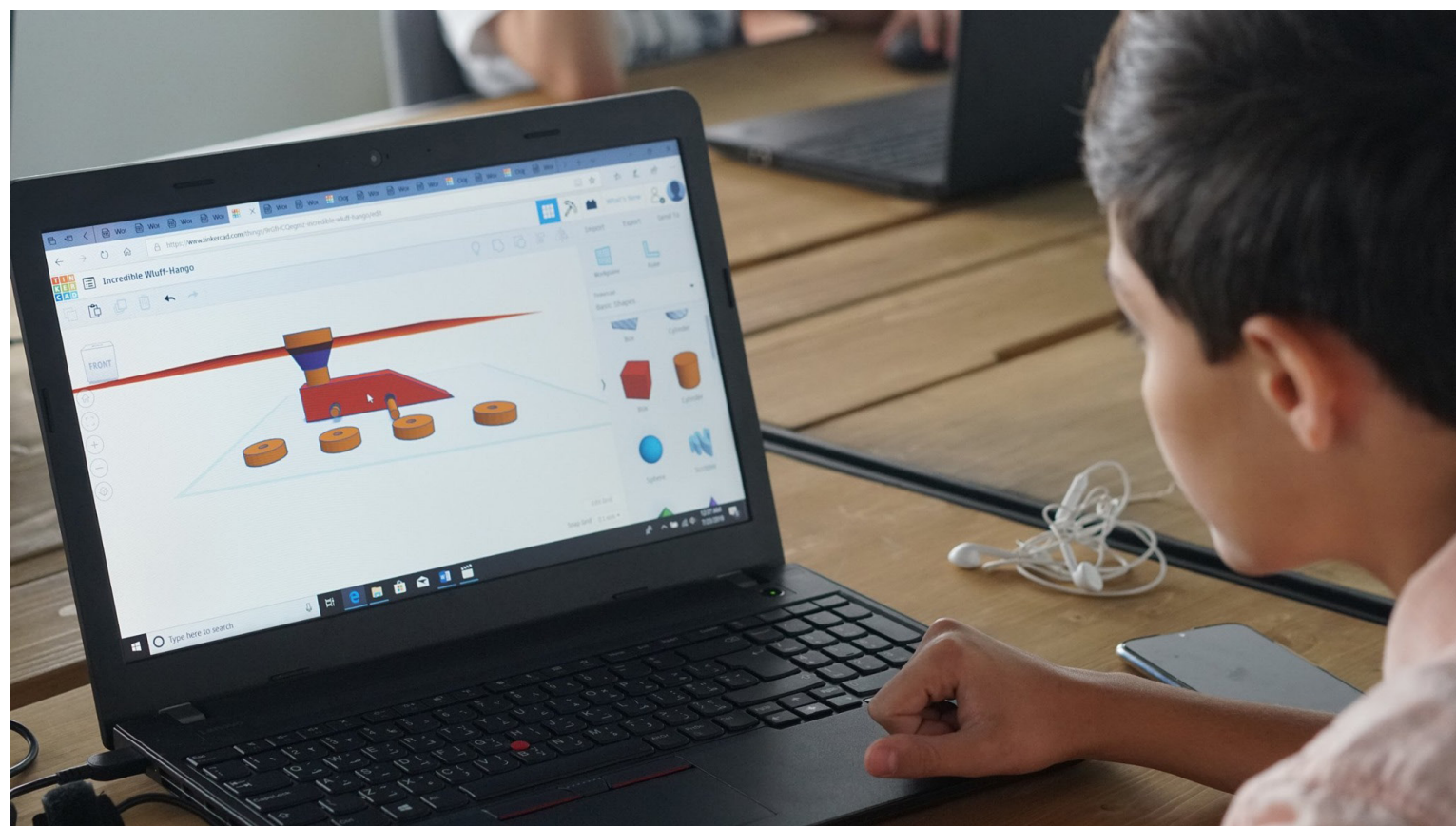
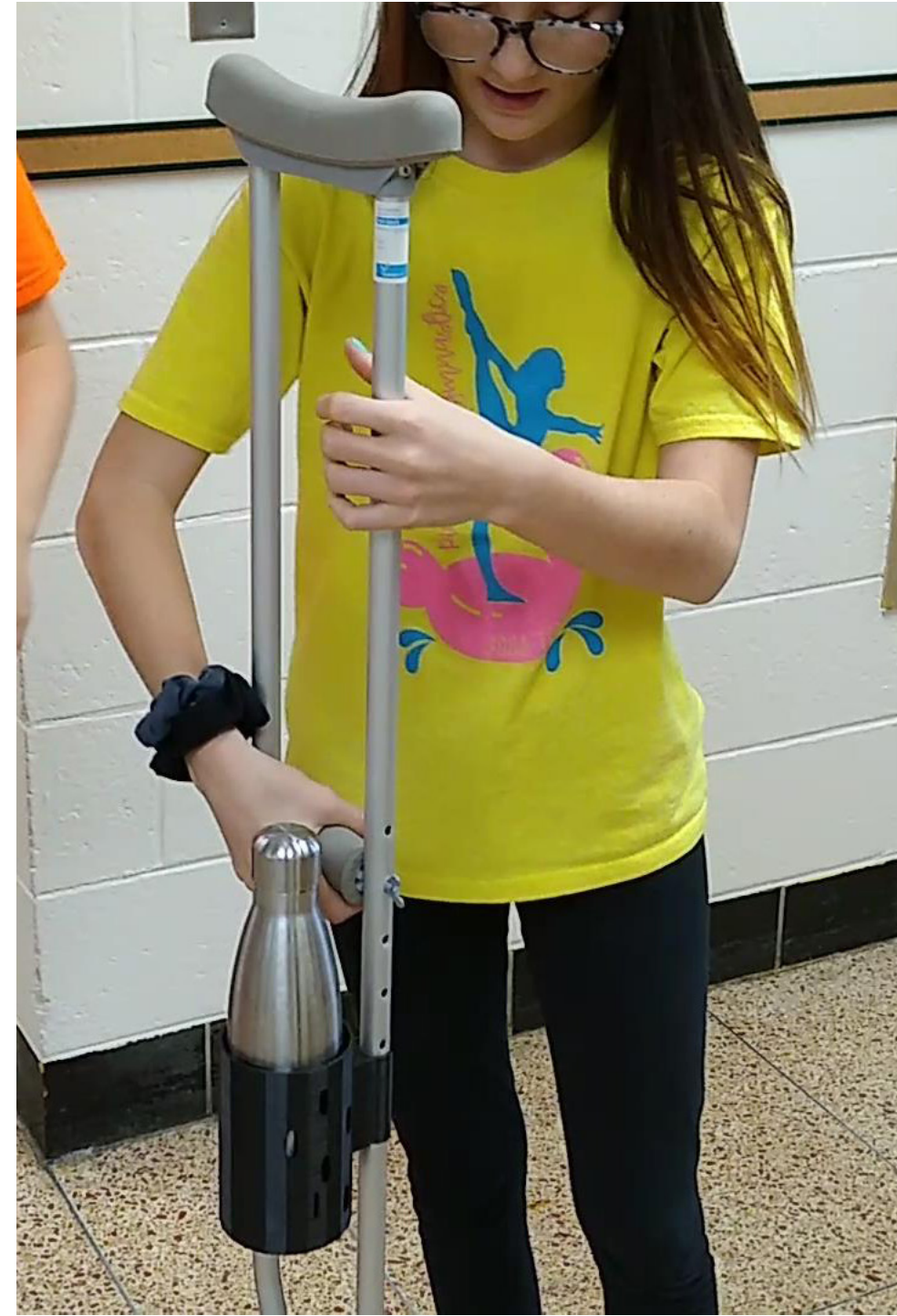
Bill White, Avonworth School

“

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







Learn more and start a free trial  
from your local representative:

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