

# foundry. by Fabrica

Education for Sustainable Change.

Experience how The Mills—a landmark revitalisation project—and its innovation arm, The Mills Fabrica, are shaping sustainability and social impact in Hong Kong.

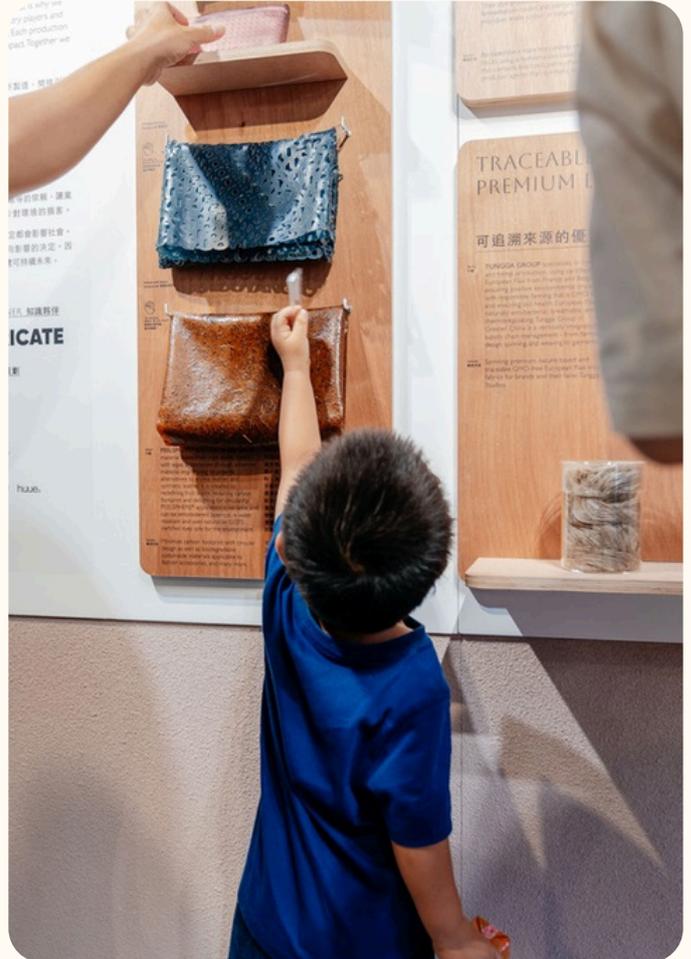
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# About Us.

The Mills Fabrica is dedicated to driving sustainability by fostering innovation in the techstyle and agrifood industries. Through venture investment, strategic partnerships, prototyping facilities, and knowledge-sharing, we support innovations at every stage, nurturing solutions that create planet-positive changes.

**foundry. by Fabrica** is our sustainability education initiative, designed to share our foresights and insights with the next generation of leaders. Through programmes, tours, workshops, and talks, we aim to raise awareness and deepen understanding of sustainability. We believe that empowering students with this knowledge creates a strong foundation for reimagining how we engage with resources and nature, paving the way for innovative ideas that shape a better future.



## Entrusted by:



# Why Us.

Our unique blend of innovation, subject expertise, and global insights makes sustainability education engaging and impactful.

## **Innovation Expertise**

Our up-to-date knowledge of sustainable fashion and food allows us to introduce students to exciting, real-world examples of how consumer goods can be made more eco-friendly.

## **Global Perspective**

With teams in both Hong Kong and London, we can share stories from around the world, helping students see how fashion, food, and sustainability are connected everywhere, not just in their community.

## **Direct Consumer Insights**

Using what we learn from Fabrica X, our Impact Retail store, we can design activities that help students understand how consumer choices make a difference toward a greener future.

## **Experiential Learning**

We focus on tactile workshops, site visits, and creative projects, so students learn by doing and exploring, making the topic of sustainability engaging and memorable.

## **Seasoned Workshop Hosts**

Our dedicated team specialises in creating fun, hands-on sustainability workshops that are interactive and perfectly suited for young learners.



# Overview of Our Offerings.

## Guided Tour



<b>Innovation x Sustainability in Practice.</b> at The Mills, Tsuen Wan	
Duration	1 hr
Primary School	✓
HKDSE	✓
IB	✓
Min. Participant	10
Reference Price	Starting from \$150/head

## Workshops



<b>Plastic Bag Upcycling</b>	Duration	Primary School	Secondary School	Min. Participant	Reference Price	In-School Service
Container	1 hr	✓	✓	10	\$300/head	✓
Bookmark	1 hrs	✓	✓	20	\$200/head	✓
Card Holder	1.5 hrs	✓	✓	10	\$350/head	✓

<b>Denim Deconstructed</b>	Duration	Primary School	Secondary School	Min. Participant	Reference Price	In-School Service
Phone Strap	1 hr	✓	✓	10	\$400/head	✓
Keychain	1 hr	✓	✓	10	\$300/head	✓
Passport Cover	1.5 hrs	✓	✓	10	\$400/head	✓
Luggage Tag	1.5 hrs	✓	✓	10	\$400/head	✓
Pouch	1 hr	✓	✓	10	\$400/head	✓
Diatom Coaster	1 hr	✓	✓	10	\$300/head	✓

<b>Biomaterials</b>	Duration	Primary School	Secondary School	Min. Participant	Reference Price	In-School Service
Kombucha Leather: Charm	1 hr	✓	✓	10	\$400/head	✓
Eggshell Ceramic: Keychain	1 hr	✓	✓	10	\$300/head	✓
Eggshell Ceramic: Clock Painting	2 hrs	✓	✓	10	\$300/head	✓

<b>Textile Reform</b>	Duration	Primary School	Secondary School	Min. Participant	Reference Price	In-School Service
Fabric Wreath	2 hrs	✓	✓	10	\$350/head	✓

## Talks



<b>Topics Include</b>	Duration	Primary School	Secondary School	Min. Participant	Reference Price	In-School Service
Sustainable Fashion/ Agrifood/ Microplastics.	1 hr	✓	✓	10	from \$1,000*	✓

\* 10-20 pax: from \$1,000 | 21-80 pax: from \$2,000 | 81-120 pax: from \$3,000

# Guided Tour.



This tour connects real-world applications of sustainable design, innovation, and community engagement. Students will observe sustainable features and management practices, investigate cutting-edge textile and agrifood innovations, and explore how urban spaces can drive positive planetary change through collaboration, technology, and circular practices.



# Tour Highlights.



## Innovation x Sustainability in Practice.

### -- The Mills, Tsuen Wan



- Introduction to The Mills Fabrica's mission and impact in sustainability and innovation
- Guided visit to the prototyping lab with advanced textile and design machinery
- Exploration of the Fabrica X Impact Retail Store featuring eco-conscious products
- Observation of The Mills' sustainable architecture and design features
- Insights into management and tenant practices advancing sustainability
- Rooftop farm visit to experience urban farming and farm-to-table concepts

Duration	1.5 hours
Min. Participant	10
Primary School	✓
HKDSE	Chemistry, CSD, Fashion and Image Design, Geography, History, Tourism & Hospitality
IB	Business Management, Chemistry, Design Technology, Environmental Systems and Societies, Social and Cultural Anthropology
UNSDGs	9   11   12   13   15
Location	The Mills, 45 Pak Tin Par Street, Tsuen Wan, Hong Kong
Reference Pricing	Starting from \$150/head

### Learning Outcomes

/ Gain essential knowledge of how sustainable design and innovation drive environmental and social impact in urban settings.

/ Develop awareness of sustainable management practices and circular economy concepts through real-world examples like rooftop farming and eco-friendly technologies.

/ Inspire intention to adopt or promote sustainable behaviors in daily life and community environments.





# Workshops.

We engage students in upcycling, biomaterial innovation, and sustainable craft-making. Participants experience transforming waste and natural resources into meaningful products, building practical skills while deepening their understanding of circular economy principles and environmental stewardship.



# Plastic Bag Upcycling.

Give plastic bags a new life as unique products through upcycling. Participants are encouraged to bring their own plastic bag waste to create the designs, hence learning the importance of rediscovering value in waste.

## Learning Outcomes

- / Gain essential knowledge about daily plastic use and the environmental impact of such.
- / Apply practical skills to transform plastic bag waste into functional products.
- / To inspire reflection on existing consumption habits and develop an intention towards reducing waste.



### Container

Duration	1 hr
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$300/head



### Bookmark

Duration	1 hr
Min. Participant	20
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$200/head



### Card Holder

Duration	1.5 hrs
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$350/head



# Denim Deconstructed.

Participants will be engaged in a hands-on crafting experience where they will learn to transform denim deadstock from our industrial partners into unique, useful products. These workshops will highlight the advantages of repurposing waste materials and giving them a second life.

## Learning Outcomes

- / Learn about the environmental impact of denim and textile production.
- / Gain hands-on experience with tools to transform denim deadstock into functional products.
- / To inspire reflection on existing consumption habits and develop an intention towards reducing waste.



### Phone Strap

Duration	1 hr
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$400/head



### Keychain

Duration	1 hr
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$300/head



### Passport Cover

Duration	1.5 hrs
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$400/head



# Denim Deconstructed.



## Luggage Tag

Duration	1.5 hrs
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$400/head



## Pouch

Duration	1 hr
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$400/head



## Diatom Coaster

Duration	1 hr
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$300/head

\* Denim scraps will be incorporated into the water-absorbing diatom to create a coaster.



# Kombucha Leather.

Participants will get to explore the experimental process of growing materials through natural fermentation. Derived from the nutritious Kombucha drink, its byproduct SCOBY can be transformed into a sustainable, leather-like textile.



## Learning Outcomes

- / Understand the science behind fermentation and how it contributes to the creation of bio-based materials such as kombucha leather.
- / Gain hands-on experience cultivating and prototyping SCOBY-derived materials through natural fermentation processes.
- / Cultivate curiosity towards sustainable material innovation and develop a deeper appreciation for renewable, living systems in design.

## Charm

Duration	1 hr
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$400/head



# Eggshell Ceramic.

Participants will deepen their understanding of raw materials through hands-on creation, experiencing how natural resources like food waste combined with bio-based and natural dyes can produce personalised products. This process strives to expand their interest and exposure to material science and technology.



## Learning Outcomes

- / Learn about different types of biomaterials and their characteristics, and how to transform them into innovative products.
- / Develop creative design skills, applying natural materials to add uniqueness to their products.
- / Inspire ongoing attention to and support for sustainable alternative materials.

## Eggshell Ceramic Keychain

Duration	1 hr
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$300/head



## Eggshell Clock Painting

Duration	2 hrs
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$300/head



# Textile Reform.

Behind the fashion value chain is an enormous fabric waste problem. We take deadstock and reimagine its potential together with participants to create second lives as an inspiration to rethinking and repurposing what is usually going to waste.



## Learning Outcomes

/ Collaborate creatively to craft personalised wreaths using reclaimed fabric, fostering teamwork and artistic expression.

/ Appreciate the value of reusing textile materials to reduce waste and promote sustainable consumption.



## Fabric Wreath

Duration	2 hrs
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓
UNSDGs	12   13
Reference Price	\$350/head



# Talks.



Our talks are adaptable to students across age groups, equipping them with insights into real-world environmental challenges and learning about the latest innovations and consumer practices shaping a healthier planet. The sessions encourage critical thinking and inspire personal responsibility toward sustainable living.



# Talks.



## Sustainable Fashion: Environmental Impact of Textile Production

The global textile supply chain asserts immense pressure on climate change and other planetary boundaries. We will explore the environmental and human health consequences of the fashion industry, including the challenges posed by chemicals and microplastics.

Duration	1 hr
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓

### Learning Outcomes

/ Deepen understanding of the urgent sustainability challenges around textile and apparel.

/ Learn about the hidden costs of fashion and gain insights into recent approaches adopted by companies and startups to support planetary health.



## Agrifood: An Everyday Perspective of a Sustainable Future

Rising demand, shifting diets, and intensified production in the global food system strain climate change and various planetary boundaries. The session highlights current science on resource use, food waste, impacts of fertilisers, and the presence of harmful chemicals such as PFAS in food systems.

Duration	1 hr
Min. Participant	10
Primary School	✓
HKDSE	✓
IB	✓

### Learning Outcomes

/ Gain insights into problems like food waste, degradation, and biodiversity loss associated with the agrifood chain.

/ Learn about solutions that are trying to mitigate environmental impact along the agrifood supply chain.



# Talks.



## Microplastics: Understanding Pollution and How to Help

The global rise of synthetic fibres and modern production methods made microplastics a significant threat to the planet and our health. We dive into materials, consumer behaviours, and innovative solutions, inspiring more conscious consumption habits.

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Duration	1 hr
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Min. Participant	10
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Primary School	✓
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HKDSE	✓
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IB	✓
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### Learning Outcomes

/ Gain knowledge of how microplastics are imposing an adverse impact on the environment and human health.

/ Understand how consumers can play a part in improving the microplastics problem through purchases and daily actions.



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## Contact Us.

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Explore more



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