SUMMER ACADEMY 2020

AMSTERDAM
JUNE 29 - JULY 10

AGE: 8-13
FEE: 18,000 SR

LONDON
JUNE 29 - JULY 10

AGE: 8-13
FEE: 18,000 SR

RIYADH
JUNE 28 - JULY 16

AGE: 6-13
FEE: 12,000 SR

BARCELONA
JUNE 29- JULY 10

AGE: 8-13
FEE: 18,000 SR

LEYSIN
JUNE 29 - JULY 10

AGE: 10-13
FEE: 22,000 SR

RIYADH
JUNE 28 - JULY 23

AGE: 8-13
FEE: 12,000

Mohammed bin Salman Foundation

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Misk Schools

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Sustainable Design
Building a Greenhouse

RIYADH
JUNE 28- JULY 23

This is a 4-week program designed in a modular way where you can choose to attend the whole program or a week-long project on any of the given weeks. Participants will engage in different roles under STEAM themes to re-design a sustainable Misk Schools Greenhouse.

This Summer Academy is designed flexibly to give agency to learners to play and choose different roles that they are themselves interrelated to, and not necessarily stay for the full 4-weeks. Learners will act as planners, interior designers, programmers, and lastly, advertisers.

Your child will explore the following:

1. Draw a plan and sketch solutions to Misk Greenhouse.
2. Visit a Saudi organic farm, and conduct an interview with a hydroponics expert.
3. Plant, design, and assemble Misk Greenhouse hydroponics systems.
4. Visit IKEA and interview interior designer.
5. Visit SABIC Home of Innovation to explore smart possibilities.
6. Program smart features to add to Misk Greenhouse.
7. Promote and market the use of the final product creating a range of brochures, posters, etc.

Age: 8 - 13

Minimum number of registered participants:
5 (If fewer than 5 participants sign up
we will cancel the academy and issue a full refund)

Tuition: 12,000 SR for full program, or 3,000 SR per week

Sunday- Thursday 10:00am - 3:00pm

Academy Lead by:
Samar Almawash
For Inquiries: samaralmwash@miskschools.edu.sa

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Itenerary

RIYADH
JUNE 28- JULY 16

Week 3: Smart Greenhouse
" Programmers & coders "

Students will programme smart features for the Greenhouse using a range of different tools and applying basic coding skills like sequencing, functions, algorithms, etc. Students will also code music to add to the Kinetic Sculptures previously designed.

1. How can we design a Greenhouse for the future?
2. Why do we need high-tech systems?
3. What features do we need to design? (automated lights, doors, windows, heating and cooling, smart planting system, etc)
4. How to write code to apply smart features?
5. What tools do we need to use?

Week 4: Marketing & Advertising
" Advertisers"

Students will reflect on previous work, create a maintenance plan, reflect on work, write and create a range of marketing brochures, posters, video ads, graphic motions, etc.

1. How can we maintain our project?
2. What do we still need to learn/improve?
3. What are the new things we learned?
4. What challenges did we face?
5. What did we enjoy the most?
6. How can we market our product?
7. What are the different ways to market a product?
8. What tools can we use?
9. How can we build it?
10. How can we use words and visuals to advertise a product?

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Itenerary

RIYADH
JUNE 28- JULY 16

Week 1: Design Cycle
" Planners "

Students will find solutions to Misk Greenhouse, plan the design cycle of this project, visit an organic farm house, and conduct an interview with a hydroponics expert. Create a survey to collect data.

1. How can we solve this problem?
2. How can we achieve our goal?
3. How can we follow a design cycle?
4. What do we need to enhance Misk Greenhouse?
5. How can we search for possible solutions?
6. How can we design a Greenhouse for the future?
7. How to conduct a survey?

Week 2: Interior Design & Farming
" Designers & Farmers"

Students will assemble and design the Misk Greenhouse hydroponics system and greens in a challenging small space. In addition to creating a Kinetic Sculpture that can attracts visitors and affect plants growth, and conduct an experiment on the effect of music on plants.

1. How can we design Misk Greenhouse
2. What type of vegetables/fruits/flowers should we plant?
3. How can we achieve a sustainable organic farming?
4. What is hydroponics?
5. What is the difference between conventional farming and hydroponics farming?
6. What are the challenges of agriculture in Saudi Arabia?
7. What type of hydroponics system do we need?
8. What are Kinetic Sculptures?
9. How can we build it?
10. What materials do we need to use?