

Usturlab Class Design Reference Projects and Ideas



December 2023

Usturlab

Usturlab is an organization that sees science as a building block of society, adopts the interactive language of culture, philosophy, art and technology, and aims to contribute to the social ecosystem of our country by bringing experts together in their fields in the right projects on the right platforms.

It provides a wide range of end-to-end services from workshops supporting formal education to the production of educational materials; from turnkey project productions such as educational spaces, science/art/technology centers, exhibition design to content consultancy.

Usturlab is a member of:



Design Approach

Usturlab is an institution that advocates that the educational space is not a space surrounded by walls on all four sides and organizes trainings everywhere and under all conditions in this direction. Based on our experience in these trainings, we design interactive training spaces that are specific to the content of the training and meet the needs of the trainers and students.

Our priorities when designing the training space:



Accessibility



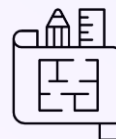
Inclusivity



Adequate and effective equipment



The interrelatedness of the training and the place to be implemented



A simple design for the needs

Educational Spaces



Astronomy Class



Art Class



STEM Class



Ecology Class



Science Class



Technology Design Class



Geography Class



Robotics and Coding Class



Children's Library



Preschool Science and Art Class



Agricultural Technologies Class



Fairytale House

Astronomy Class / Space House



Innovative and creative applications that will catch up with the space age and help the younger generation understand the requirements and future of this age play a major role in improving the quality of life in society. Astronomy classes are designed to help individuals of all ages discover the exciting aspects of the universe.

In the Astronomy Class:

- Specially designed astronomy trainings for children, young people and adults by experts in the field,
- Astronomy-themed movie screenings and talks,
- Telescope observation training,
- Astrophotography trainings,
- Special occasions and organizations,
- Many programs and activities such as social responsibility projects

can be organized.



What's in the Astronomy Class?

- Projector, computer, screen, scanner, scientific mechanisms, digital games, etc. fixtures,
- Interactive mechanisms
- Banners, posters and wall-coverings,
- Seating units,
- Desks,
- Astronaut outfits
- Consumables,
- Material storage areas.

*Materials are shaped in detail according to the size of the space and the demand of the organization.



Astronomy Class Experience

At the Space House, astronomy education is provided and various interactive experiences are offered.

A student studying here will:

- Master the basic concepts of astronomy,
- Be intrigued by space and the universe,
- Gain the habit of observing the sky,
- Be able to comment on the structure, position and properties of stars, planets and various celestial bodies.



Mustafa Varank
Molla Yegan Children's University Opening Ceremony



[Click](#) to watch the Astronomy Education Platform's introduction video.

Where to set up an Astronomy Class?

The Space House can be set up in various scales and locations.

- In schools, science centers or special education centers,
- As a central facility,
- As a class of 50-100-150-200 square meters

it can be set up on a scale appropriate to the needs.





El Battani Space House



Uluğ Bey Space House



Ali Kuşçu Space House



Molla Yegan Children's University



[Click](#) to watch the introduction video.

Uluğ Bey Uzay Evi

Ecology Class



Human beings are a part of nature and at the same time produce new products with the knowledge and vision they gain from it. In ecology classes, trainings and various applications are carried out with an approach that adopts that humans are also a part of nature. For this purpose, ecology classes are designed for individuals of all ages to establish or strengthen their bond with nature and to discover the place of humans in nature.

In the Ecology Class:

- Ecology and nature education programs specially designed for children and young people by experts in the field,
- Special occasions and organizations,
- Many programs and activities such as social responsibility projects can be organized.





Nun Schools Ecology Class

What's in the Ecology Class?

- Projector, computer, screen, scanner scientific mechanisms, digital games, etc. fixtures,
- Scientific maps, banners, posters and wall coverings
- Seating units
- Desks
- Various live plants
- A garden with land
- Insect collection
- Seed wall
- Consumables
- Material storage areas



*Materials are shaped in detail according to the size of the space and the demand of the organization.

Ecology Class Experience

In the ecology class, nature education is provided and various interactive experiences are offered.

A student studying here will:

- Master the basic concepts of ecology and nature.
- Realize that human beings are also part of nature.
- Gain a positive perspective towards nature and become a sensitive individual.
- Interact with soil, various plants, fungi and insects.



Where to set up an Ecology Class?

The Ecology Class can be set up in various scales and spaces.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meters it can be set up on a scale appropriate to the needs.
- The ecology class should be located on the garden floor with land.



Nakkaştepe Nature School

Geography Class



It is an interactive environment that includes hands-on devices to examine the Earth in all its aspects. It is designed as an experience-oriented class for education on the physical, economic, biological, sociological and political aspects of the Earth.

In the Geography Class:

- Geography education specially designed by experts in the field for children and young people
- Special occasions and organizations,
- Many programs and activities such as social responsibility projects can be organized.



What's in the Geography Class?

- Projector, computer, screen, scanner, etc. fixtures
- Educational materials
- Topographic sandbox
- Wall-mounted astrolabe
- Illuminated world globe
- Banners, posters and wall coverings
- Seating units
- Desks
- Consumables
- Material storage areas



*Materials are shaped in detail according to the size of the space and the demand of the organization.

Geography Class Experience

In the geography class, geography and cartography are taught interactively through a variety of experiences.

A student studying here will:

- Master the basic concepts of geography and cartography.
- Geographical features of Turkey and the world.
- Gain a positive perspective towards nature and become a sensitive individual.
- Interact with soil, various plants, fungi and insects.

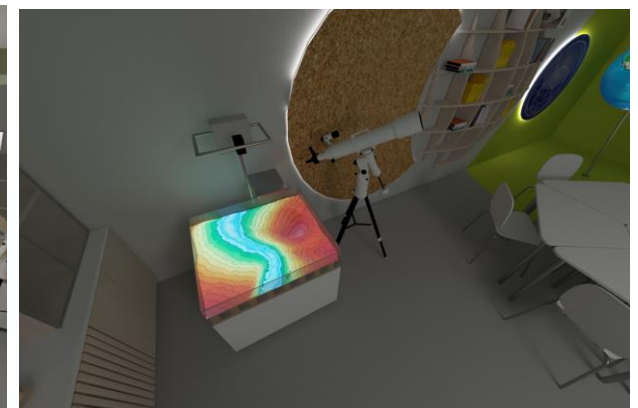
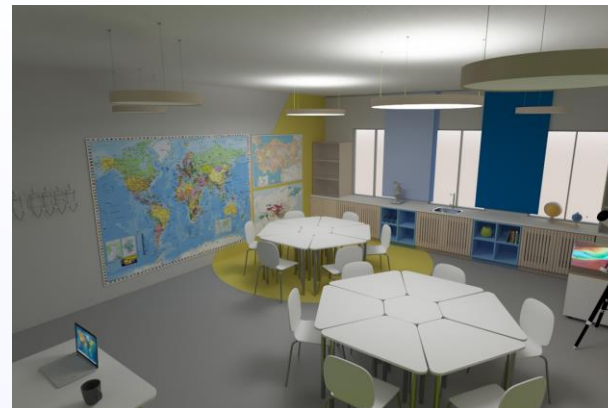


Where to set up a Geography Class?

The Geography Class can be set up at various scales and locations.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meters

it can be set up on a scale appropriate to the needs.



Preschool Science and Art Class



An interactive, fun and modular space was designed for pre-school age group where play-based science and art education can be provided.

In the Preschool Science and Art Class:

- Activities and education programs with science and art content for children aged 4-6,
- Special occasions and organizations,
- Story days can be organized.



What's in the Preschool Science and Art Class?

- Projector, computer, screen, scanner, etc. fixtures,
- Educational materials
- Banners, posters and wall coverings,
- Seating units,
- Desks,
- Consumables,
- Material storage areas.



*Materials are shaped in detail according to the size of the space and the demand of the organization.

Where to set up a Preschool Science and Art Class?

Preschool Science and Art Class can be set up in various scales and locations.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meters

it can be set up on a scale appropriate to the needs.



Preschool Science and Art Class Designs



Art Class



The art class is designed as a modular space where various applications can be made, especially in the field of visual arts. Art education can be given practically to various age groups, especially primary and secondary school students.

In the Art Class:

- Activities and education programs with art content for students at primary and secondary school level,
- Special occasions and organizations can be organized.



What's in the Art Class?

- Projector, computer, screen, scanner, etc. fixtures,
- Visual art materials
- Banners, posters and wall coverings,
- Seating units,
- Desks,
- Consumables,
- Material storage areas.



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Where to set up an Art Class?

The Art Class can be set up in various scales and spaces.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meters

it can be set up on a scale appropriate to the needs.



Science Class



It is a modern and modular science class design that includes equipment for basic science disciplines such as physics, chemistry and biology.

In the Science Class:

- Science-based activities and education programs for primary and secondary school students,
- Special occasions and organizations can be organized.



What's in the Science Class?

- Projector, computer, microscope, screen, scanner, etc. fixtures,
- Educational materials
- Banners, posters and wall coverings,
- Seating units,
- Laboratory tables,
- Consumables,
- Material storage areas.



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Where to set up a Science Class?

The Science Class can be set up at various scales and locations.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meter

it can be set up on a scale appropriate to the needs.



Nun Schools
Physics Laboratory



Nun Schools
History of Science Class

Robotics and Coding Class



It is designed as a modular class with sufficient equipment that can be used for applications such as basic robotics and coding training, project development and preparation for competitions.



In a Robotics and Coding Class:

- Basic programming, robotics and coding activities and education programs can be implemented for primary and secondary school students.
- Special occasions and organizations can be organized.
- Various projects can be developed.



What's in the Robotics and Coding Class?

- Educational materials
- Computers
- Coding equipment
- Seating units
- Tournament table
- Mat
- 3D Printer
- Storage
 - Showcase (Limited access)
 - Free storage
 - Student hanger
- Projector or smartboard
- Interactive dashboard



*Materials are shaped in detail according to the size of the space and the demand of the organization.

Where to set up a Robotics and Coding Class?

The Robotics and Coding Class can be set up in various scales and spaces.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meters

it can be set up on a scale appropriate to the needs.



Robotics and Coding Class Design Approaches



Robotics and Coding Class Design Approaches



Agricultural Technologies Class



In Agricultural Technology class, trainings and various applications are carried out in order to produce technology for agriculture. Agricultural Technology classes aim to raise individuals who are at peace with nature, protect nature and integrate technology into agricultural activities.

In an Agricultural Technology Class:

- Smart agriculture educations specially designed for children and young people by experts in the field,
- Robotics and coding educations,
- Many programs and activities such as social responsibility projects can be organized.



What's in the Agricultural Technology Class?

- Educational materials
- Computers
- Seating units
- Storage
 - Showcase (Limited access)
 - Free storage
 - Student hanger
- Pinboard
- Projector or smartboard
- Interactive dashboard
- Compost area
- Live plants
- Robotics and coding equipments

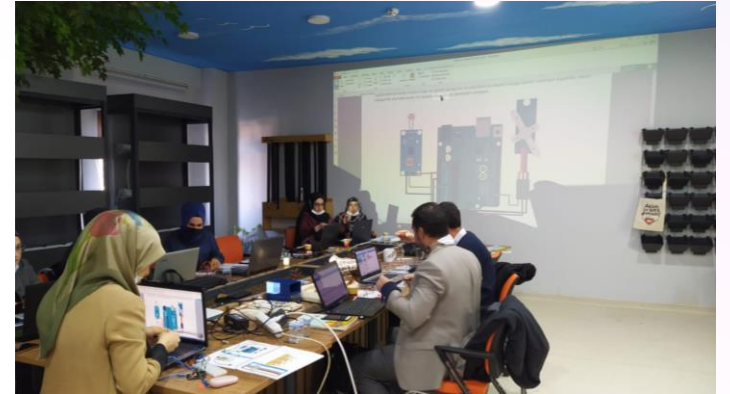


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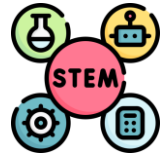
Where to set up an Agricultural Technology Class?

Agricultural Technology Class can be set up in various scales and locations.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meters it can be set up on a scale appropriate to the needs.



STEM Class



It is a modern and modular STEM class design that includes equipment for fields such as science, technology, engineering and mathematics.

In the STEM Class,

- Science and technology-based activities and education programs for primary and secondary school students,
- Special occasions and organizations can be organized.



What's in the STEM Class?

- Projector, computer, screen, scanner, etc. fixtures
- Educational materials
- Banners, posters and wall coverings
- Seating units
- Desks
- Consumables
- Material storage areas



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Where to set up a STEM Class?

The STEM Class can be set up at various scales and locations.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meter

it can be set up on a scale appropriate to the needs.



Technology Design Class



The technology design class is designed as a modular classroom with adequate equipment to develop technological knowledge and skills and increase creativity.

In the Technology Design Class,

- Activities and education programs can be implemented to provide primary and secondary school students with knowledge and skills in the fields of technology and design.
- Special occasions and organizations can be organized.
- Various projects can be developed.



What's in the Technology Design Class?

- Educational materials
- Seating units
- Desks
- 3D Printer
- Storage
 - Showcase (Limited access)
 - Free storage
 - Student hanger
- Projector or smartboard
- Interactive dashboard



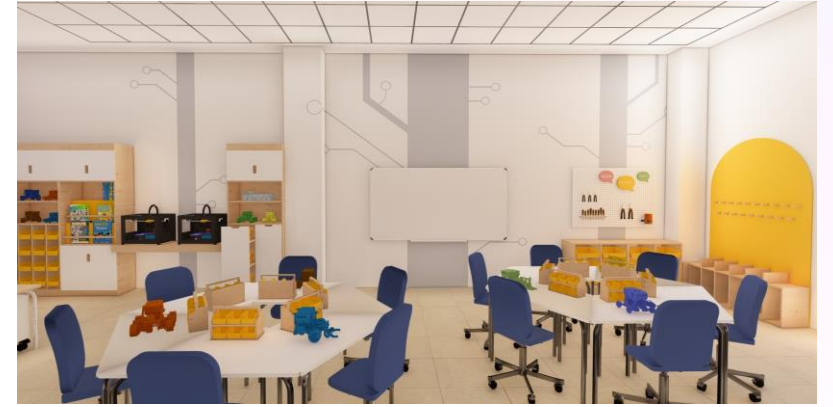
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Where to set up a Technology Design Class?

The Technology Design Class can be set up at various scales and locations.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meter

it can be set up on a scale appropriate to the needs.



Children's Library



A fun and modular space has been designed to foster the culture and habit of reading in childhood.

In the Children's Library,

- Activities and educational programs for children,
- Special occasions and organizations,
- Story days can be organized.



What's in the Children's Library?

- Projector, computer, screen, scanner, etc. fixtures
- Banners, posters and wall coverings
- Seating units
- Desks
- Books
- Shelves
- Consumables
- Material storage areas

*Materials are shaped in detail according to the size of the space and the demand of the organization.



Where to set up a Children's Library?

The Children's Library can be set up at various scales and locations.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meter it can be set up on a scale appropriate to the needs.



Fairytale House



The fairytale house is designed as a fun space that will contribute to the development of children's imagination, their ability to empathize and enrich their vocabulary.

In the Fairytale House,

- Educational programs for children,
 - Special occasions and organizations,
 - Storytelling and creative writing workshops
- can be organized.



What's in the Fairytale House?

- Projector, computer, screen, scanner, etc. fixtures
- Banners, posters and wall coverings
- Seating units
- Desks
- Books
- Shelves
- Consumables
- Material storage areas

*Materials are shaped in detail according to the size of the space and the demand of the organization.



Where to set up a Fairytale House?

The Fairytale House can be set up at various scales and locations.

- In schools, science centers or special education centers,
- As a class of 50-100-150-200 square meter

it can be set up on a scale appropriate to the needs.



Bubblegon Modular Activity Area

Bubblegon is a design that can be customized and purchased as part of training packages.



Bubblegon Modular Activity Area

Modules are designed in 4 different ways according to usage :

- Single Use
- Use of Group Activities
- Use of Stage
- Use of Seating Area



Bubblegon Modular Activity Area

It is designed so that children can work individually or in teams.



Bubblegon Modular Activity Area

To save space when there is no activity in the space, modules can be placed side by side or on top of each other to make the space completely open and usable.





usturlab

Murat Reis Mah. Yeni Ocak Sok.
No:33 Üsküdar / İstanbul

+90 542 206 10 09
+90 543 206 10 99

bilgi@usturlab.com.tr