

STEM Club 2022-2023 Academic Year

№	Topic	Activity	Activity description	Period
1	organizational issues	Introduction/ distribution of badges/ redistribution of roles	Club members and manager get to know each other; The manager introduces the planned activities of the club, then notes the interests of each member, what they want to learn and get from the club. They agree on the time, place and format of the meeting.	10/2022
2	Description of Arduino, its features.	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample	10/2022
3	Studying the principle of operation of analog pins and digital pins.	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	10/2022
4	Connecting to sensors and other peripheral	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	11/2022
5	Understanding and applying the deep physical content of each sensor and its principle of operation	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	11/2022
6	Inventing new types of sensors for measuring different physical quantities and trying to implement and model them.	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	11/2022
7	Data reception-transmission and using of their processing methods starting from Morse telegraph to Bluetooth and WiFi;	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	11/2022
8	Studying the principle of operation of Step and Servo motors, and modeling their working principle.	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	12/2022
9	Gathering and analysing relevant information	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	12/2022
10	Project planning and writing in the appropriate format	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	01/2023
11	Project planning and writing in the appropriate format	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	01/2023



1	Creating a project evaluation rubric	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	02/2023
2	Creating a project evaluation rubric	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	02/2023
3	Creating a project evaluation rubric	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	02/2023
4	Implementation of project activities	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	03/2023
5	Implementation of project activities	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	03/2023
6	Implementation of project activities	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	03/2023
7	Implementation of project activities	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	04/2023
8	Presenting the final product of the project	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	04/2023
9	Presenting the final product of the project	Explanation/workshop	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	04/2023
10	Preparation for contest	Contest	The head of the club prepares members for a contest	05/2023
11	Preparation for contest	Contest	The head of the club introduces the members to a specific activity, gives a sample and helps them to make it themselves	06/2023
12	Contest	Contest	Holding a contest and announcing winners	06/2023
12	Summary		The head of the club summarizes the year together with the members and plans the next school year	06/2023