



STE^N EXPO

SCIENCE • TECHNOLOGY • ENGINEERING • MATH

DEC 17





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ISLAMIC CENTER OF
MORRISVILLE
HOME OF THE ICM YOUTH

ANNUAL STEM *EXPO* 17

Welcome!

Welcome! - Agenda

TIME	AGENDA ITEM
2:30 PM	Welcome Ceremony
3:00 PM	First Lego League (FLL) Juniors [PRESENTATION]
3:15 PM	FLL Robotics Team Project and Robot [PRESENTATION & AWARDS]
3:30 PM	Amplified Courses [PRESENTATION] (Programming, Video Prods, Cooking ...)
4:00 PM	MadScience: K-5 Science Club - [PRESENTATION]
4:15 PM	Questers & Answers / Feedback Session + Early Registration
4:30 PM	Snacks & Socializing
4:45 PM	Asr Prayer
5:00 PM	Closing Ceremony



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YC's Approach



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First Lego League (FLL)

Our Juniors & Robotics Team

FLL: Our Junior Team

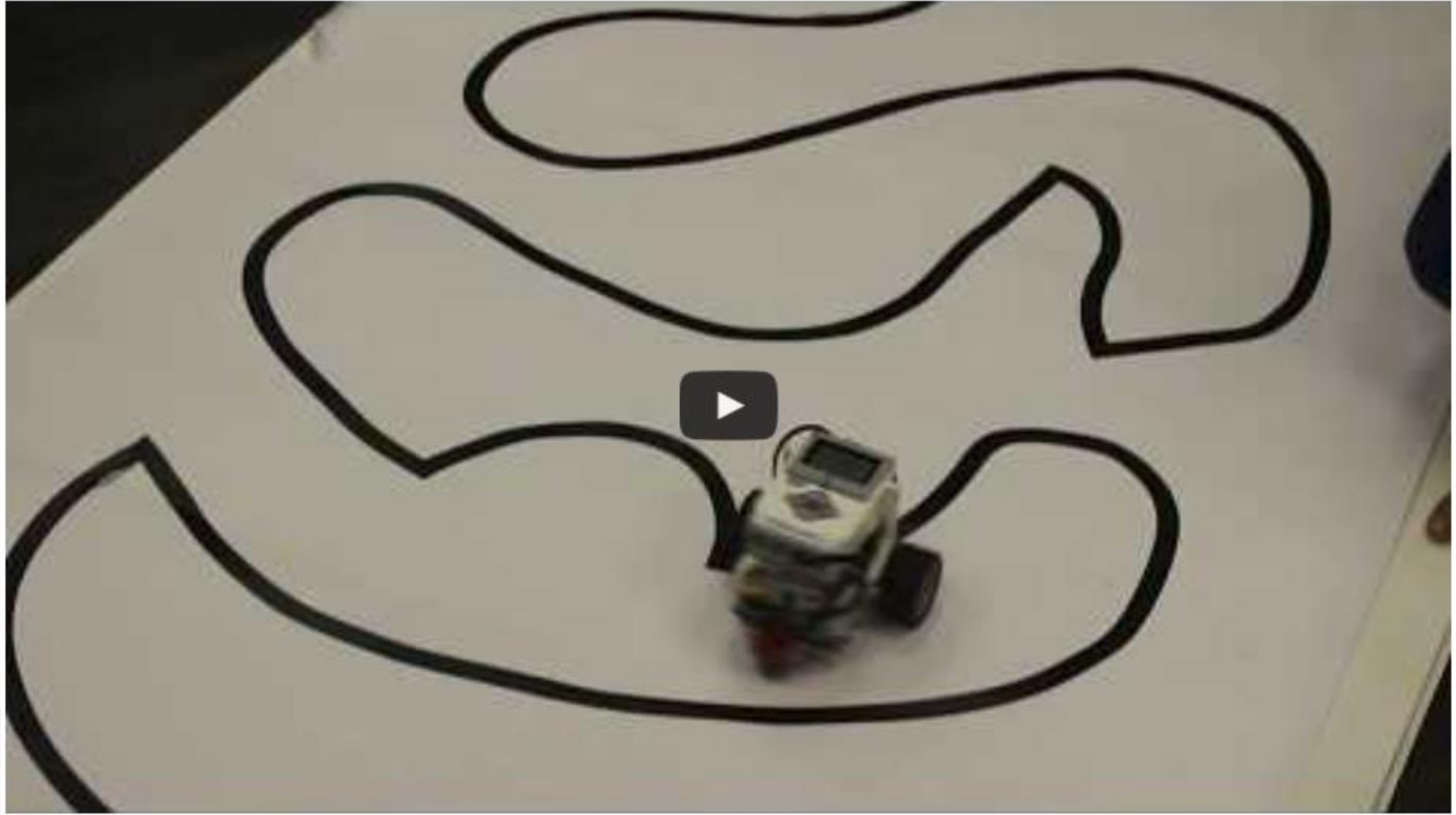
FIRST LEGO League (FLL) is a global robotics program that ignites an enthusiasm for discovery of Science, Technology, Engineering, and Math (STEM) in children in grades 4th through 8th. For roughly 8 to 10 fast-paced weeks, teams work as a group to overcome obstacles and meet challenges.

This years season is all about water, how we find transport, use, or dispose of it. During the HYDRO DYNAMICS season, teams will choose and solve a real-world problem in the Project that involves water in our lives.

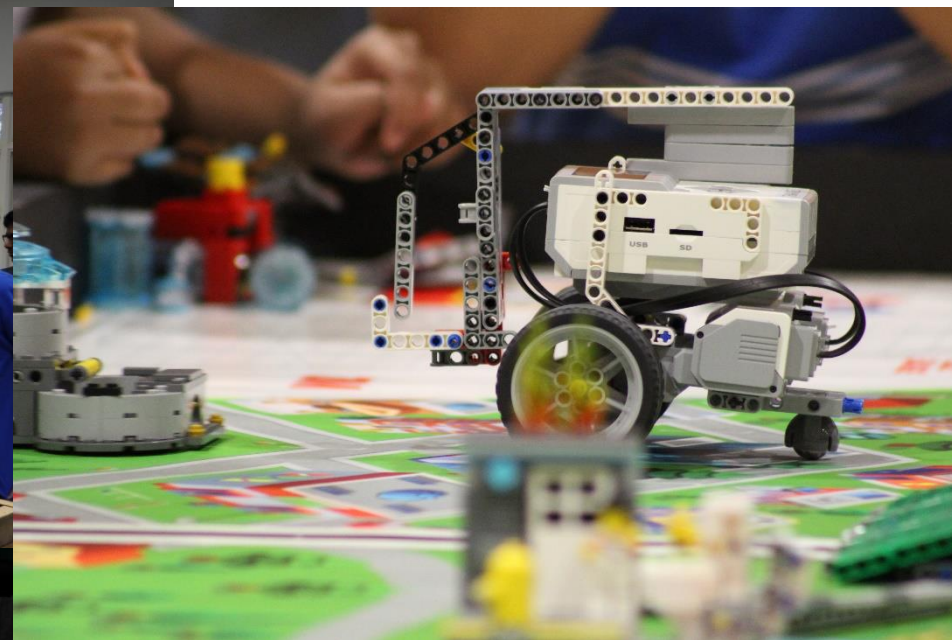


**HYDRO
DYNAMICS**

FLL: Our Robotics Team



FLL: Our Robotics Team



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Amplified Courses

2017 SEMESTERS

Amplified

ICM YC'S

AMPLIFIED

DISCOVER • LEARN • GROW • SUCCEED

WEEKEND YOUTH PROGRAM
SUNDAYS 2 PM - 4 PM
GRADES 7 & UP • COST \$10

SEMESTER BEGINS

OCT 1ST

SEMESTER ENDS

DEC 14TH

ENROLL:

WWW.ICMYOUTH.ORG/AMPLIFIED

ABOUT AMPLIFIED

The sheer volume of talent in our community is awe-inspiring and must be given a platform.

AMPLIFIED's vision is to provide our talented youth a platform to discover their unique talents, learn the art, grow with experience and knowledge, and ultimately succeed in their expression.

All courses are taught by professionals and qualified students turned instructors.



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CLASSES OFFERED:



SCIENCE OF FILM PRODUCTIONS II



WEB & DATABASE DEVELOPMENT



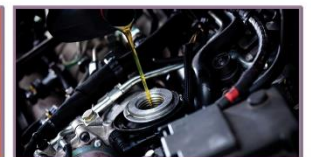
COOKING 101: BASICS DISHES



GUEST SESSIONS



LEARN JAVA: KEY PILLAR OF ANDROID



AUTO-MECHANICS II: HAND'S ON VER.

Programming Courses | Java

Variables Datatypes and Operators

- Primitive Datatypes
- Strings

Expressions, Statements, Code Blocks, Methods

- Code blocks and If-Then-Else Control Statements
- Methods
- Method Overloading
- Keywords and Expressions

Control Statements

- For Statement
- While and Do Statements
- Switch Statement

OOPS Part 1 – Classes, Constructors and Inheritance

Arrays



```
package sample;

import javafx.event.ActionEvent;
import javafx.scene.control.Label;

public class SampleController {
    public Label helloWorld;

    public void sayHelloWorld(ActionEvent actionEvent) {
        helloWorld.setText("Hello World!");
    }
}
```


Programming Courses | Web Development

Basic HTML & CSS

Going from plain HTML

Favorite T.V. Shows

The Flash
Arrow
Supernatural
Doctor Who
The Good Place
Twilight Zone
Sherlock
Supergirl
Riverdale

Favorite Movies

Gifted (2017)
Spider-Man: Homecoming (2017)
...and more!

.... to using CSS for style!



Started with Simple Server sided development with
PHP ...

A simple calculator interface with two input fields, a dropdown menu for operators, and an equals button.

+ (plus)
+ (plus)
- (minus)
* (multiply)
/ (divide)

```
<?php  
$num1 = $_REQUEST['num1'];  
$num2 = $_REQUEST['num2'];  
$op = $_REQUEST['operation'];  
  
$total = null;  
  
switch( $op ) {  
    case '+':  
        $total = $num1 + $num2;  
        break;  
    case '-':  
        $total = $num1 - $num2;  
        break;  
    case '/':  
        $total = $num1 / $num2;  
        break;  
    case '*':  
        $total = $num1 * $num2;  
        break;  
}  
  
if( $total == null ) die( 'Invalid operation!' );  
echo "The total is {$total}";
```

Programming Courses | Web Development

...to complex server sided scripts

Game Character Generator

You know your parents
 Your race is: Half-orc (Rolled 88)
 One parent orc, other half-orc
Birthplace: On the Astral Plane or the Ethereal Plane
Your class is: Paladin
Because: One of my ancestors left a holy quest unfulfilled, so I intend to finish that work.
Background: Noble
Personality Trait 1 : My favor, once lost, is lost forever.
Personality Trait 2 : The common folk love me for my kindness and generosity.
Ideal: Noble Obligation. It is my duty to protect and care for the people beneath me. (Good)
Bond: I will face any challenge to win the approval of my family.
Flaw: I have an insatiable desire for carnal pleasures.
Why I became my occupation: My family has been disgraced, and I intend to clear our name.

Attribute	Type	Rolls	Result
Strength	Rolled 4d6 dropped lowest:	4 6 2 2	: 12
Dexterity	Rolled 4d6 dropped lowest:	3 3 2 3	: 9
Constitution	Rolled 4d6 dropped lowest:	4 3 3 5	: 12
Intelligence	Rolled 4d6 dropped lowest:	5 5 2 2	: 12
Wisdom	Rolled 4d6 dropped lowest:	3 6 3 2	: 12
Charisma	Rolled 4d6 dropped lowest:	2 3 6 3	: 12

You have 0 siblings.

Alignment (Rolled 3d6: 7): Neutral Evil

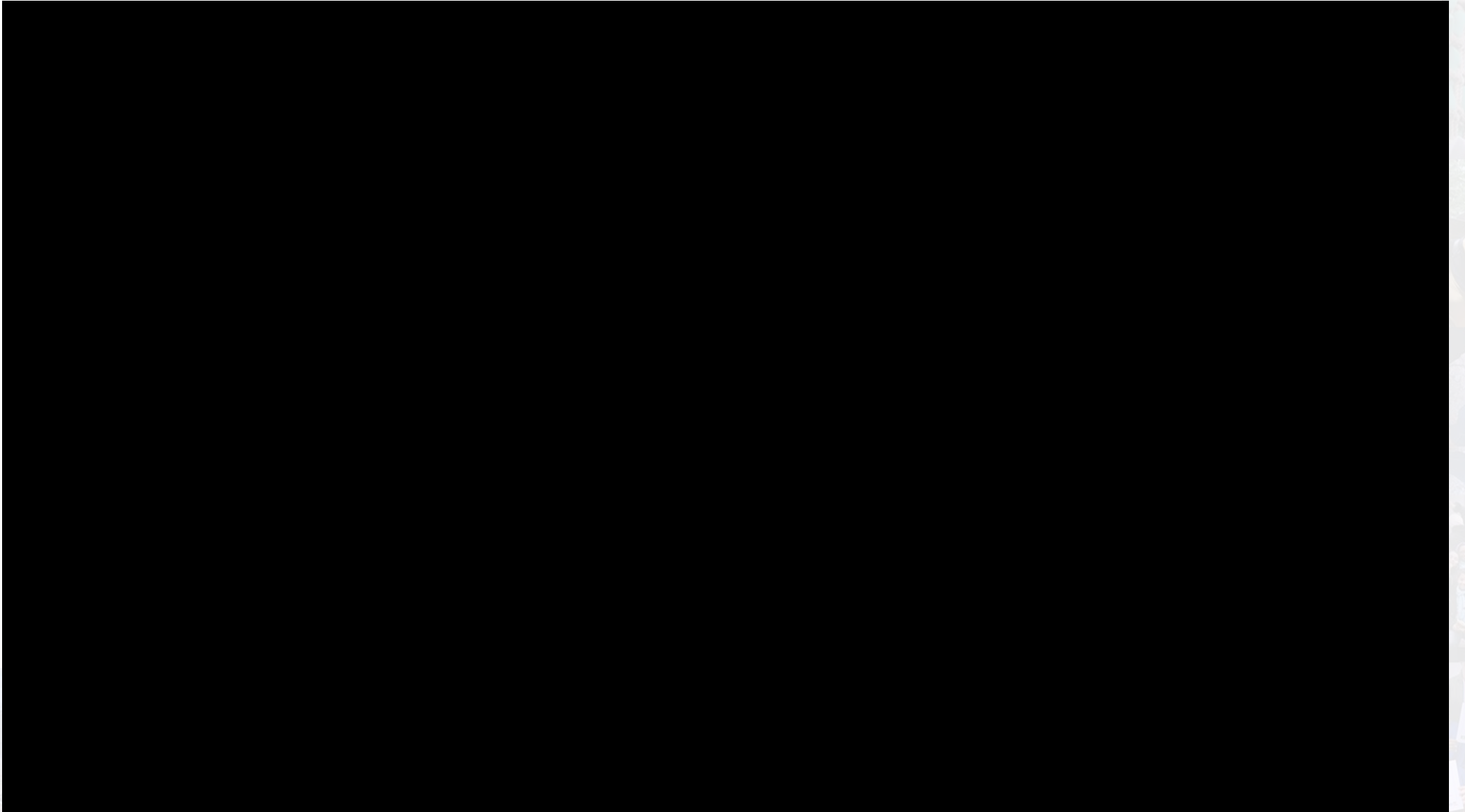
Childhood memories (Rolled 3d6: 11): I had a few close friends and lived an ordinary childhood.

Our Students Work:

```

1161
1162     $Siblings = rand(1, 10);
1163     $add910 = rand (4,11);
1164     $add78 = rand (3,8);
1165     $add56 = rand (2,5);
1166     $add34 = rand (1,3);
1167
1168
1169     {
1170         if ($Siblings >=9) $numSiblings = $add910;
1171         elseif ($Siblings >=7) $numSiblings = $add78;
1172         elseif ($Siblings >=5) $numSiblings = $add56;
1173         elseif ($Siblings >=3) $numSiblings = $add34;
1174         else $numSiblings = 0 ;
1175
1176     echo "You have $numSiblings siblings.<br />";
1177
1178     }
1179
1180     {
1181     $alignmentroll = rand (1,6) +rand(1,6) +rand(1,6);
1182
1183     $alignment = array(
1184         blank,
1185         blank,
1186         align3,
  
```


Amplified: Film Productions I



Surprise Addition!



LEGO
LEAGUE

SCIENCE

AMPLIFIED

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MadScience: K-5 Club

FALL 2017 SEMESTER

MadScience Weekend Club





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Then Comes 2017

JAK!

Feedback & Questions?



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