

Be a Maker!!

This is a 1 week program designed to get students to learn 3D printing and build their creative talent. The course is designed for those with no prior knowledge of 3D printing and for those who wish to advance their skills. Learn about types of 3D printing, parts of 3D printer, filament type and melting temperature, step by step Tinkercad walk through, slicing software and understand the trade offs between printer speed vs quality.

Once the basics are covered, your child will learn hands on with DIY design workshop and Advanced 3D Modeling (Fusion 360 CAD). Throughout the week they will have lab sessions to print their creations.

Students should bring their own laptop (Windows or Mac). Printer and training resources will be provided.

After this program

Your child will learn the concepts of CAD Modeling, such XYZ planes, extrusion, cut, loft, outline, fillet, spline, etc.

Your child will bring home their 3D printed designs.



Schedule

Monday

- Introduction to 3D Printing.
- Basic 3D Modeling with Tinkercad.
- Workshop and print: Custom Lego blocks with student's name

Tuesday

- Introduction to Fusion 360
- Intermediate 3D Modeling: Analyzing and Editing Mesh
- Workshop and print: Customized mesh from Thingiverse

Wednesday

- Intermediate 3D Modeling: Sketch, Extrusion, Cut, Spline, Line, Curves
- Workshop and print: Custom key tag

Thursday

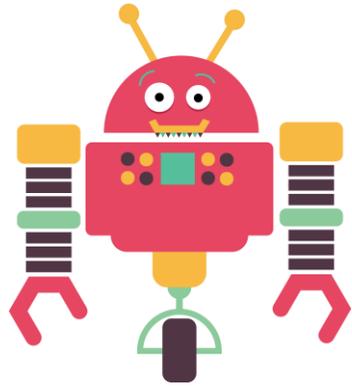
- Intermediate 3D Modeling: Fillet, Chamfer, Sketch offsets, Loft, Shell
- Workshop and print: Custom flower vase

Friday

- Advanced 3D Modeling: Tolerance, Offset Planes, Revolve
- Workshop and print: Custom Fidget Spinner

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Find out the secret of artificial intelligence (AI)!
Design it and compete!

This AI program focuses on having your child understand the potential and limitation of current artificial intelligence and the impact on him/her through hands-on projects and discussions.

This program covers, convolutional neural network, recurrent neural network, personal assistance such as Siri and Alexa, history of AI, and decision tree.

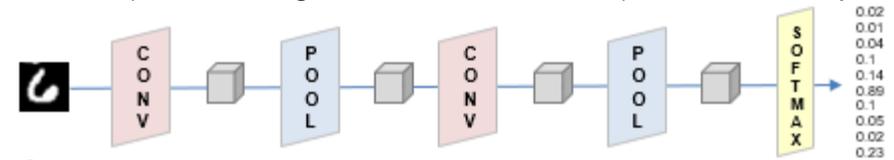
Within this program, your child will design convolutional neural networks for recognition of hand written images and other classification projects.

This program does not require programming experience.

Requirement: Notebook PC with the latest version of Chrome browser

After this program

Your child understands 1) how current AI system works, 2) multiple types of AI and neural network, 3) basic design skill of a CNN and 4) limitation and potential impact of AI.



Schedule

Monday

- Overview and history of AI
- Decision tree practice

Tuesday

- Convolutional Neural Network (CNN, Deep learning) fundamentals
- CNN based hand written image recognition

Wednesday

- Design own CNN for hand written image recognition
- Competition

Thursday

- Design own CNN for classification
- Competition

Friday

- Recurrent Neural Network
- Future impact

Sample images

9 2 1 3 5 0 4 1
4 5 6 7 4 7 6 0
1 8 6 4 2 0 2 7
1 7 6 2 1 3 5 9
5 8 0 9 8 6 3 7
9 7 5 7 8 7 6 0
9 2 1 6 2 3 9 4
9 3 7 0 5 6 7 9





Create amazing stories!

This one-week Amazing Stories with Scratch Jr is fun and designed for beginner programmers that does not have any previous programming experience at all.

Your child will learn the fundamentals of programming such as step by step movement, loops and event driven programming.

After learning the fundamentals of programming such as loops by solving challenges, your child will develop a story by designing characters, recording sounds, programming the movements.

The rental cost of tablet is included in the class fee.

After this program

Your child can design and develop own multi stage stories with visual programming of Scratch Jr. Your child also understands fundamentals of programming such as loops and even driven programming.

Schedule

Monday

- Introduction of Scratch Jr.
- Background design

Tuesday

- Character design
- Visual programming (step by step)

Wednesday

- Visual programming (loops)
- Event driven programming

Thursday

- Story design
- Programming of the story

Friday

- Programming of the story
- Sharing the story



Pinnacle Intellect

Summer Fest 2018

Rolling Robot Programming

Entering
Grades
3 to 8



Code and Roll!

This one-week coding program is fun and designed for beginner programmers that does not require any previous programming experience. However, any previous programming experience is beneficial. Your child will learn the fundamentals of coding such as step by step movement, loops and branches. Also, your child will learn about the fundamentals of robotics, the real-time feedback mechanism and defining actions based on the real-time sensor data.

This program uses Sphero as the robots. Your child will solve challenges by controlling a robot with programs or analyzing the feedbacks. For the programming, we use the visual programming tool optimized for the robot.



After this program

Your child can develop programs that control the robot with loops and branches. Your child also understand real-time sensor feedback based programming and fundamentals of robot programming.

Schedule

Monday

- Introduction of Sphero
- Introduction of Sphero visual programming and the challenge

Tuesday

- Programming (loops)
- Angle and momentum
- Straight motion control

Wednesday

- Programming (loops, conditional branches)
- Circular motion control

Thursday

- Programming (variables)
- Gyroscope, LED control

Friday

- Programming (functions and parameters)
- ASCII code

The rental cost of robots and tablets are included in the class fee.

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Design and develop a cool website!

This one-week website development program is fun, and is designed for first-time developers that does not require any previous experience. Your child will learn the fundamentals of UI/UX prototyping, HTML coding, Twitter bootstrap based CSS and photo editing to develop a website manually. Your child will also learn about website development with WordPress. This program does not teach JavaScript itself and exposure to JavaScript is minimal.

Requirement: Each student needs to bring his/her notebook PC (Windows or Mac) with the latest Chrome browser, GIMP2 and Sublime Text.

After this program

Your child can design and develop a simple hand written website with CSS. Your child also understand fundamentals of website structure design, proto typing and UX/UI design.

Schedule

Monday

- Fundamentals of HTML
- Twitter bootstrap CSS

Tuesday

- Design and prototyping
- UX/UI design

Wednesday

- Photo editing basics
- Website development

Thursday

- Website development

Friday

- Domain name
- Cloud environment

**Bonus
RISU
Critical
Thinking**



A lot of fun quizzes!

Your child will enjoy a lot of critical thinking quizzes that trains your child to think more flexibly and logically. Mastering math is crucial, but it isn't enough. Critical Thinking is the true key for success in real life. This program improves your child's critical thinking abilities based on a wide variety of critical thinking cues including figurative, verbal, spatial, numerical and logical reasoning, while developing self-confidence and nurturing innate curiosity. Talented students will learn from 56 categories of advanced math questions that have been commonly tested on the CCSS Test and SAT, a trick that most schools do not teach in traditional classes.

RISU utilizes designated, personal tablets for each child, resulting in highly effective and efficient learning. Immediate scoring and positive feedback create a personalized learning rhythm and continuously motivate your child. Each student will learn at his/her own pace with RISU.

RISU provides this program with other programs and conducts the 1 hour classes in the morning and in the afternoon every day.

PASE1

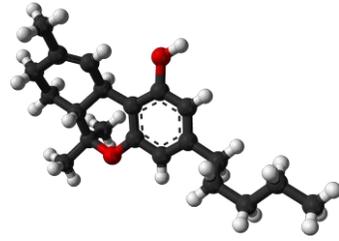


Pinnacle Intellect

Summer Fest 2018

Amazing Science Exploration

Entering
Grades
K to 8

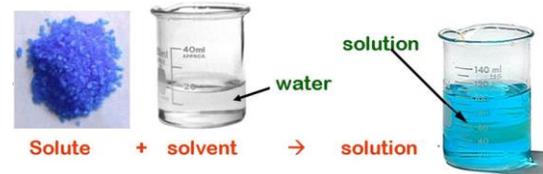


Super Science Concoctions

Our kitchen cabinets are always full of surprises. There is a Genie hiding in our kitchen pantry. Chemicals found in our kitchen can help us to unlock the secrets of the quirky science called Chemistry.

In this camp, your child will explore the wondrous world of Chemistry with mystical mixtures that will creep, bubble and will help to stretch their curiosity and knowledge.

Children will create concoctions which really are scientific experiments and engage them to think like a scientist.



Schedule

Monday

Strange – but -True (Children will learn about Molecules, atom, and Solutions, Solvent, Solute)

Physical Changes (Phases of matter: Solid, Liquid and Gas. Children will learn how adding or subtracting energy changes matter from one form to other)

Tuesday:

Presto Change-O

Chemical Changes (Sometimes certain substances change so much that it is difficult to even recognize them any longer)

Wednesday:

Go with the flow

Liquids: Viscosity, density and immiscibility. (Liquids flow in different ways. Students will learn about the viscosity of the liquids and density of liquids and how it is determined)

Thursday:

Sticky, Creepy Water (Surface tension, capillary action. Liquids behave strangely and make an amazing ingredient for concoctions which makes liquid stick to itself or other stuff and defy gravity)

Friday:

Polymers, Colloids, gels and more. (Look around you and you will find the world full of just plain weird stuff. What makes these substances weird? Kids will experience an follow formulas to create strange substances and have fun with the mucky, moldable and stretchy science.

PASE2

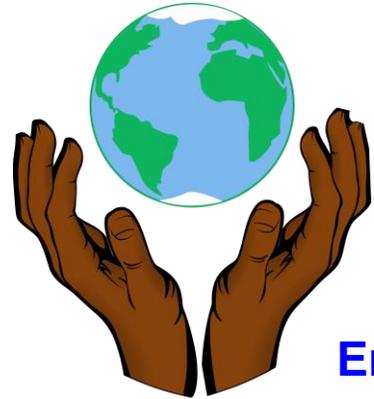


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Amazing Science Exploration

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K to 8



Environmental Awareness

Home sweet home!! That is what this planet of ours is. Home to billions of people, animals, birds, fishes, trees, plants and shrubs. Just like all family members are not the same, so is all and everything that grow, walk, crawl, fly and swim on this planet.

Just as our house has an address this planet that we all call our home has an address too!. And it is Earth, 3 P (3rd planet) Solar System, Milky Way, Universe PO



Schedule

Monday:

A Home of Many Homes (Understanding our planet, habitats and how we affect the environment)

Tuesday:

It is all about choices, The Earth seems to be getting warmer. Find out how earth is getting warmer, learn about pollution, biodiversity, endangered species, conservation and recycling

Wednesday:

3 R's Reduce, Reuse and Recycle, Going green and conservation. 12 steps to being a good caretaker of Planet Earth.

Thursday:

Environmentalism and Living Green, Solar Energy, Solar Cooker, Purifying Water, Filtering Water Hydro Power, Air on the move, Wind Spinner and Wind Energy.

Friday:

Ways and actions to help and preserve the Environment.

PASE3

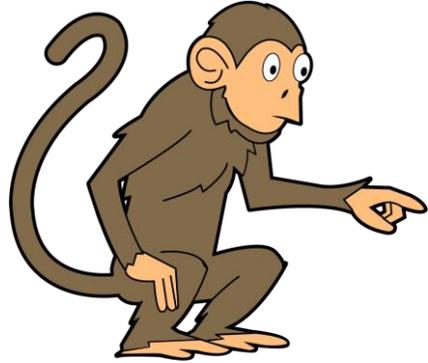


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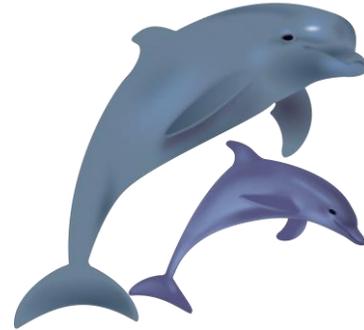
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Bio Humor



Try to kiss your elbow- the very tip of your elbow. Can you do it? Your body just isn't made to do it. All around us we see life in different forms, from the birds in the air, to the fishes in the sea, and in between are human and animals. But how does life work or what is life and how did it originate. If we can find answers to that, we have got an insight into the most widely studied sciences in the Natural World.... Biology.

Kids will learn in a fun and humorous ways the various branches of Biology



Schedule

Monday:

Human Anatomy. Series of activities focusing on the five basic senses: sight, hearing, touch and feeling, smell and taste.

Tuesday:

Physiology, Animal Behavior and Zoology. Why does heartbeat make sound? Can flies grow from decaying animals? What keeps the animals warm and why cat eyes glow in the dark?

Wednesday:

Botany. Food factories, natural air conditioners, Inside and Out, Looking at Leaves, Spore Prints, Rubbings

Thursday:

Genetics and Microbiology. It takes Two, possible gene combinations. Boy or Girl. Chromosome combinations. All about bacteria and mold penicillium

Friday:

Botany. Food factories, natural air conditioners, Inside and Out, Looking at Leaves, Spore Prints and Rubbings.

PASE4

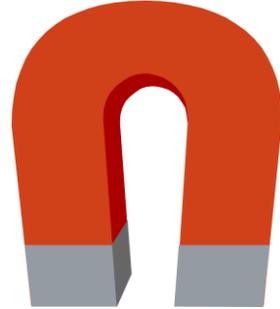
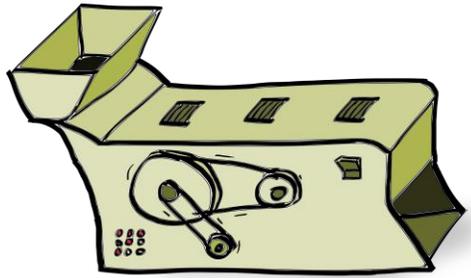


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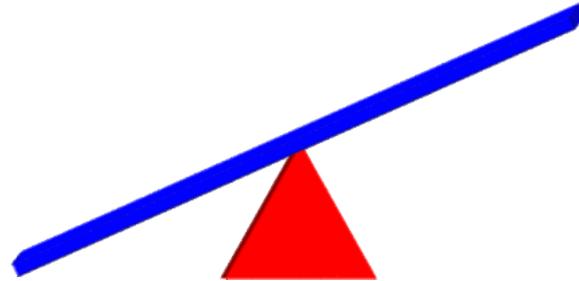
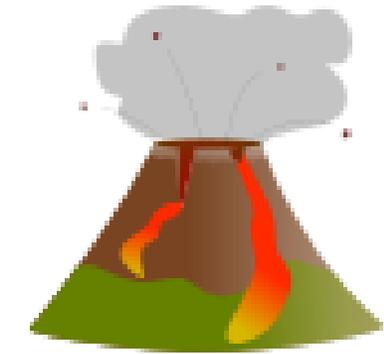
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Physics Made Simple



Schedule

Monday:

Engineering Challenges. Saved by the technology. Supporters and Enlargers, Geodesic Domes, Marble Run, Spaghetti bridges, Cardboard Boat and Cardboard Chair.

Tuesday:

Engineering challenges continued.....Magnetism, Make a periscope, Potato power and Metal Etching.

Wednesday:

Machines: Simple and Compound. The plane truth, different ways to design plane.

Thursday:

Science Challenges: Underwater Volcano, Floating Ping Pong Balls, Balloon Kebabs ad Liquid Densities.

Friday:

Science Challenges continued.... Measure the speed of the light, Strong as a drinking straw, Design and build a helicopter etc.

Bonus
ART
Workshop

Art Workshop & Outdoor



Schedule

Monday:

Math art : Geometry Stained Glass windows,
Symmetry pop up cards, Amazing paper ornaments,
Nature Symmetry prints.

Tuesday:

Science Art: Water and Air, Light and Sight.

Wednesday:

Canvas painting

Thursday:

Wood Painting

Friday:

Glass Painting

Art, Performing Arts, Crafts And Outdoor



Schedule

Monday:

Basics of Art and Water Color Painting, Out door games, Cooking and Healthy Eating, Theater.

Tuesday:

3 D Art and Crafts Mania, Bollywood fusion, Indoor gardening, Speech / Debate.

Wednesday:

Canvas painting / Wood painting, Outdoor Games, Cooking and Healthy Eating, Theater.

Thursday:

Environmental Art, Bollywood fusion, Indoor Gardening, Public Speaking.

Friday:

Glass Painting and Crafts Mania, Outdoor games, Cooking and healthy Eating, Theater.