# **SIEAM**Chess

# STEM Summer Camp July 8 – July 26



**STEAMchess@gmail.com** | (917) 617-3008 | w

www.steamchess.com



## SI EAMChess Camps

S EAMCHESS SUMMER CAMP

## littleBits

- Coding
- Electronics
- Engineering
- Invent

#### S EAMCHESS SUMMER CAMPO

little

### littleBits

- Create
- Design
- Experiment

#### SI EAMCHESS SUMMER CAMPO

# **SIEAM**Chess

# STEM Summer Camp July 8 – July 26

#### Outdoor Sports & Water Fun

#### S EAMCHESS SUMMER CAMPO

# SEAMCHESS SUMMER CAMPO



# **SIEAM**Chess

# STEM Summer Camp July 8 – July 26



**STEAMchess@gmail.com** | (917) 617-3008 | w

www.steamchess.com

#### **Science of Building**

- Engineering
- Bridges
- Catapults
- Sky Scrapers
- BIG Structures...

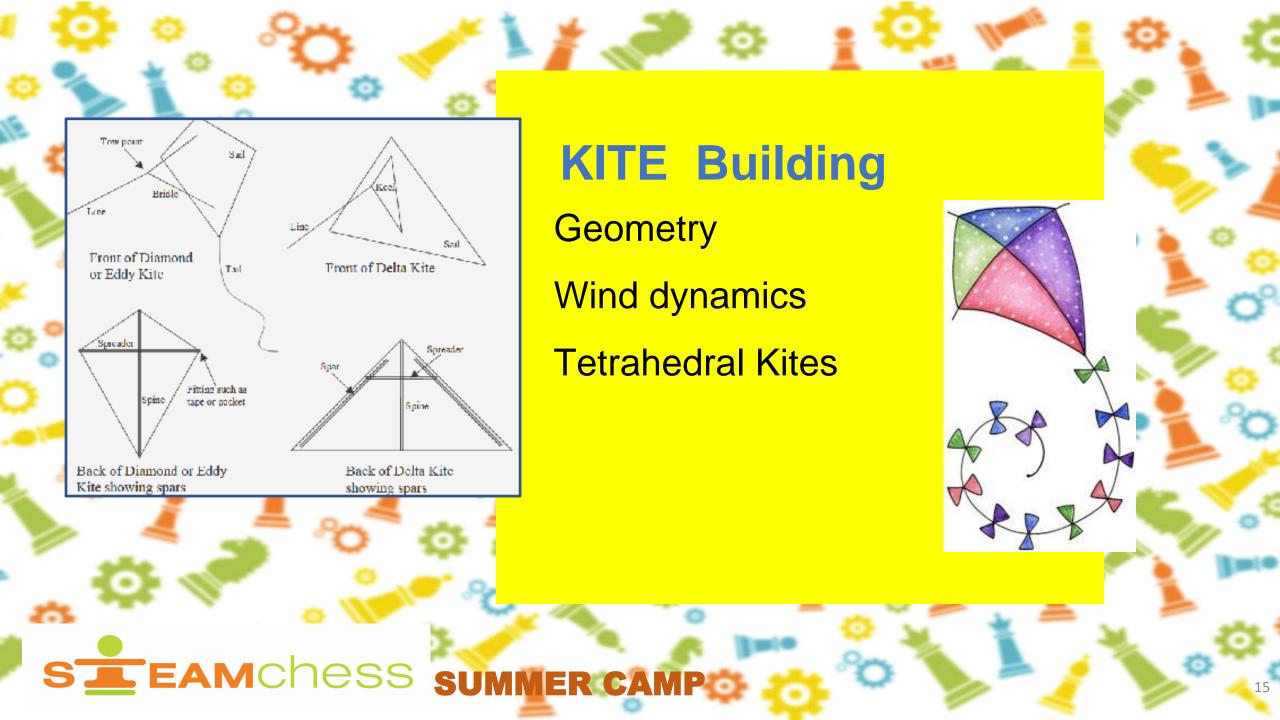
#### S EAMCHESS SUMMER CAMPO

#### **Science of Building**

- Kites
- Windmills
- Catapults
- Skyscrapers
- Bridges

#### **BIG structures!**

# S EAMCHESS SUMMER CAMP 14





#### Outdoor Sports & Water Fun

#### S EAMCHESS SUMMER CAMPO

# S EAMCHESS SUMMER CAMPO



# **SIEAM**Chess

# STEM Summer Camp July 8 – July 26



**STEAMchess@gmail.com** | (917) 617-3008 | w

www.steamchess.com

S EAMCHESS SUMMER CAMPO

22

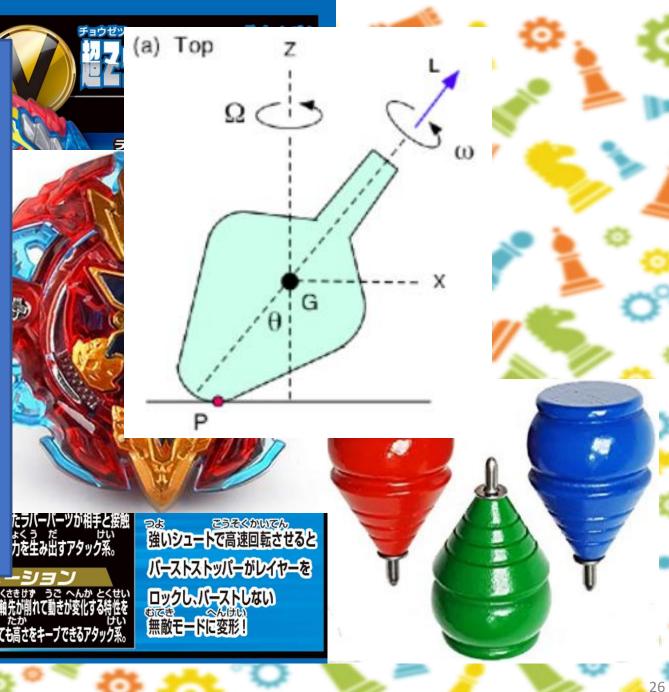






### **Science of Spin**

- Momentum
- Spin
- Gravity
- Centripetal force
- Issac Newton



# **SIEAM**Chess

# STEM Summer Camp July 8 – July 26



**STEAMchess@gmail.com** | (917) 617-3008 | w

www.steamchess.com



## MIT GameMaker

SCRAT

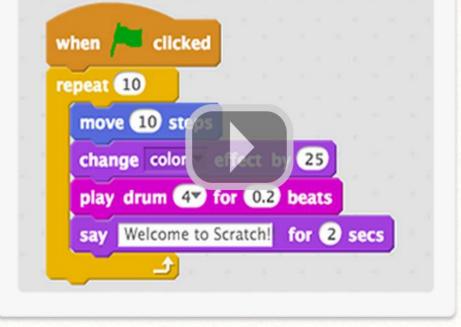
- Coding
- Design Games
- Visual Logic
- Animation
- Creativity

S EAMCHESS SUMMER CAMP



Create stories, games, and animations Share with others around the world





A creative learning community with **5,517,281** projects shared

TOP FOUNT TOPOL FOR DUPELITO

#### EAMCHESS SUMMER CAMPO

"onclick" actechtern "onclick" = createlement "input" value "t" schitteringe "radio" = v schitteringe "checked" "checked" schitteringe "t" appendibilit = createlocumentIngument appendibilit lastichild Construction = function "padding 9.margin 0.border 0.display block overflow hidden:" getFiceentsbyTanham = body = if the restelement = display = function = functi

"10" style width "1px" appendicate Thed" style style "visible" "width: tpx.padding: tpx.da "black" style "visible" "width: tpx.padding: tpx.da "jurger" Ath random relate "jurger" Ath random relate style data function return = nodeType data data return = if the and data function return data B getittribute "classid" and return data "parsedAttrs" attribute "parsedAttrs" attribute "attribute" style style attribute "parsedAttrs" attrbs" "parsedAttrs" attribute "parsedAttrs" attribut style style marginRight style style marginRight types style ==3 style di ==3 style di ==3 style di ==3 style 1 [([\s\S]+\])\$/ =>([A-Z])2g to clsid:D27CDB6E-AE6D-11cf-96B8th S&The data function if data if (till if the data state == if ==="object"||types =="function"

#### Programming is an Art

S EAMCHESS SUMMER CAMPO

## python <CODING>

- Programming
- Games Development
- Arduino Interface
- littleBits
- Artificial Intelligence
  - **Applications**

#### S EAMCHESS SUMMER CAMPO

#### **INTRODUCTION TO PYTHON**

Python is a high level programming language that is very powerful

#### **OUTPUT TEXT**

print("Hello")

Your program can output simple text Strings by putting them in between Quotes

> Naming variables then setting them to a value using = means we can use the name later to call the value that we set

You can change the value of a variable but not the type of data

#### **OTHER VARIABLE TYPES**

varChar = 'a' varString = "Hi" varInt = 21varReal = 7.3varBool = True

#### **OUTPUT NUMBERS**

print(1234)

Numbers can be typed in without anything to enclose them

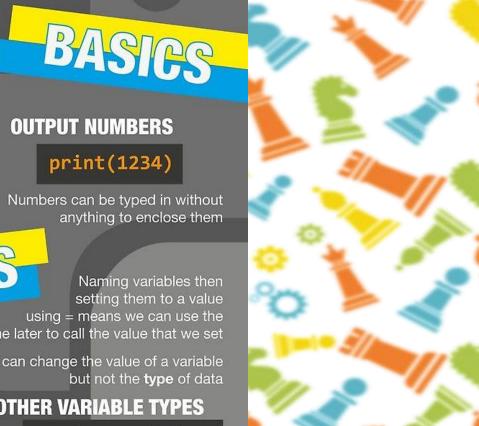
VARIABLES

**STORE & USE TEXT** varHi = "Hi" print(varHi)

changes the value of a variable

SEAMchess





SUMMER CAMP 34

#### S EAMCHESS | SUMMER CAMP

35



