## MSU x Pathlight Belize Coding Club Spring 2023

Orientation
11 January 2023

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## Agenda

| 7:00-7:05 BZT | Would You Rather / This Or That | Main Room |
| :--- | :--- | ---: |
| 7:05-7:20 BZT | Zoom Orientation | Breakout |
| 7:20-7:45 BZT | Getting to Know You Icebreaker | Breakout |
| 7:45-8:00 BZT | Spring Overview | Main Room |
| 8:00 | BZT | Attendance \& Dismissal |

## Zoom Orientation

## Getting Started with Zoom

- Meeting Actions
- Chat (Everyone or DM)
- Mute/unmute
- Stop/start video
- Show captions
- Share your screen
- Reactions
- Raise your hand

- Your turn!
- Send a chat to everyone telling us your favorite fruit
- Send a DM to me telling me your favorite color
- Raise your hand if you like:
- Dogs
- Cats
- Reading
- Swimming
- Playing soccer (football)
- React with the "thumbs up" emoji


## Technical Difficulties?

- Log in on a laptop or PC rather than a phone
- Use Google Chrome browser and close all the tabs not in use
- Exit other applications open on your computer
- Ask others in your household to avoid data intensive activities (i.e. streaming videos)
- Work close to the router
- Refresh the tab having issues
- Exit and rejoin the Zoom session

Icebreaker

## Spring Overview

## Saturdays: 10:00 am - 12:00 pm BZE (11 am - 1 pm EST)

- Games and icebreakers
- New lesson
- Explore examples on CodeHS
- Time to work on CodeHS
- Standup

Thursdays: 7:00-8:00 pm BZT (8:00-9:00 pm
EST) (Bonus hours)

- Bonus Hour: optional time to drop in if you have any questions about the material, need help on assignments, or just want to chat!


## Curriculum Overview: HTML and CSS

Do not worry if you have not coded before! We will start from the very beginning!

- Meeting 2: Intro to HTML
- Meeting 3: Formatting
- Meeting 4: Images
- Meeting 5: Lists and Tables
- Meeting 6: CSS 3.1-3.2
- Meeting 7: CSS 3.2-3.3
- Meeting 8-10: Work on Final Project
- Meeting 11: Present Final Project

You might not know what these terms mean now, but at the end of the club you will!


## Final Project

The last three weeks of the club will be dedicated to working on your final project.

Here are some examples from last year, all made using code!


Sun with Mountains
By Avani Singh 2021


Harry Potter By Lilia Hall 2021

Beach Scenery
By Jishitha Ratakuntla 2021

Attendance

## See you Saturday @ 10a BZT!

## Spring Overview

## Spring Overview

- 60 students from grades 9-12
- 3 cohorts of 20 students each
- 1 curriculum, 1 platform, 1 schedule, 1 vision
- 14 hour-and-a-half sessions over 7 weeks for 21 contact hours
- 6 hour (paid )!!) mentorship commitment per week
- Weekly routine
- Monday: Leadership Meeting @ 5p-6p
- Tuesday: Review Lesson @ 4:30p-7p
- Wednesday: All-Hands Mentor Meeting @ 7p-8p
- Thursday: Bonus Hour @ 7p-8p
- Saturday: New Lesson @ 10:30a-1p
- On your own: Work through curriculum on your own


## Spring Overview

- Monday: Leadership Meeting @ 5p-6p
- Quick updates, planning, and administrative items
- Leads only
- Tuesday: Review Lesson @ 4:30p-7p
- Wednesday: All-Hands Mentor Meeting @ 7p-8p
- Teambuilding and leadership development with SGWC
- Lessons learned with SGWC
- Debrief of previous week
- Overview of week ahead
- Role assignment
- Thursday: Bonus Hour @ 7p-8p
- An opportunity for students to ask questions and learn about life in tech
- Two mentors each week, rotating
- Saturday: New Lesson @ 10:30a-1p
- On your own: Work through curriculum
- Get comfortable with content and exercises before each meeting


## Spring Overview

- Class Meetings
- All virtual via Zoom
- T-30: Login and welcome students
- T+00: Icebreaker
- T+10: Spotlight
- T+20: Lesson/Codealong
- T+40: Exercises/Challenges
- T+80: Standup and post-survey
- T+90: Mentor debrief
- T+120: Done!
- Tuesdays: Review
- Saturdays: New Content


## Spring Overview

- Meeting 1: Orientation and CodeHS Setup
- Meetings 2, 4, 6, 8: New material on Saturday
- Meeting 2: Intro to Tracy
- Meeting 4: For Loops
- Meeting 6: Functions
- Meeting 8: Variables, Conditionals, and While Loops
- Meetings 3, 5, 7, 9: Review material on Tuesday
- Meeting 10: Final project discussion and brainstorm
- Meetings 11-13: Final project work time
- Meeting 14: Final project show-and-tell + celebration
- Dates: $1 / 11$ through 2/26

Curriculum Overview

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## Curriculum Overview

－Meeting 2 （1／15）：Intro to Tracy
－Meeting 3 （1／18）：Review

## TRACY＇S WORLD

Unit 1：tracy
－INTRO TO PYTHON WITH TRACY THE TURTLE
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（9）TRACY＇S GRID WORLD
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## Curriculum Overview

－Meeting 4 （1／22）：For Loops
－Meeting 5 （1／25）：Review

MOVING TRACY EFFICIENTLY
Unit 2：tracyTURNING TRACYFOR LOOPS
TURNING TRACY USING ANGLES
目 $\cdots$ •

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## Curriculum Overview

－Meeting 6 （1／29）：Functions
－Meeting 7 （2／1）：Review

DESIGNING AND COMMUNICATING SOLUTIONS
Unit 3：tracyCOMMENTS
Hide Lessons $\Theta$
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（－）NAMING GUIDELINES
봅
．．$\boxplus$functions
붑… $\boxplus$ARTISTIC EFFECTS
… $\cdot \rightarrow$TOP DOWN DESIGN
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## Curriculum Overview

- Meeting 8 (2/5): Variables, Conditionals, and While Loops
- Meeting 9 (2/8): Review



## Curriculum Overview

- Meeting 10: Final project discussion and brainstorm
- Meetings 11-13: Final project work time
- Meeting 14: Final project show-and-tell + celebration


F21 Technovation Final Project Brainstorm
To end Technovation on a high note, Tracy has challenged you to create a drawing in codeHS which showcases all you've learned this fall! This is an open-ended challenge: you're free to draw whatever you'd like using Python
and Tracy.

Yoult have the next two Saturdays, 11/6 and 11/13, to code your masterpiece, and will present your work at our final showcase session on $11 / 20$ to your peers. As a reward for your hard work, we'll be mailing stickers and certificates your way after our final meeting of the fall!
We'll have you come up with two final project ideas here, then select one to work on moving forward. If you finish your first final project idea early, you'll be able to come back and complete the second idea!

Let's get brainstorming!

## Final Project: Brainstorm

- Examples
- Share your ideas

What are you passionate about?
Favorite place or animal?

- Food
- Cool geometric shapes or patterns
Try spelling out words



## Curriculum Overview

- Differences from F21 Technovation
- No custom exercises: these were somewhat out-of-order and asked too much of our students!
- No hidden activities: we will tell students which modules we expect them to complete and which are bonus, but we will leave all modules visible for those who wish to go above and beyond
- Scheduled review time: if we need to carry over parts of a lesson to a second day, we have time
- Session length: 90 minute instead of 120


[^0]:    © ADD NEW LESSON

