Unit : Computer Science Collaborators: Saranii M, Jerusha T, Maxwell Y, Greg S
Breakout Room 4, Friday Jul 15, 2022
Lesson : 3
Title: Debugging with Scrat

Materials:	**Agenda:**
1.) Computers 2.) Code.org 3.) Google classroom	1.) Entry Slip/discuss 2.) Model 3.) We do 4.) Lesson 3 - in Code Studio 5.) Exit Slip

Standards: CSTA K-12 Computer Science Standards
- **1A-AP-11 - Decompose (break down) the steps needed to solve a problem into a precise sequence of instructions.**

LT: SWBAT predict where a program fails and modify the program to solve the errors.

	Lesson Plan	Tech Tools / Notes
3 min	**Entry Slip: There is a bug in the program … Scrat can't get to the acorn. Why can't he? How can you fix it?** **** Ask students to heart the ones they think will work**	**Collaborate board** ● **Interactive hearts**
5 min	**Entry Slip Share** **See which had most hearts -** *Conclude for kids whether their favorite is correct then go to breakouts* **HOW did you figure out what was wrong in the entry slip? ONE of you will be sharing your groups ideas with the class when we come back to the whole class** - Key person depends on attendance	● *See NEarpod - can be used and virtually*
3	**Vocab** **What do you think a bug is in coding?** **Then what does it mean to debug?** **A bug is:** Part of a program that does not work as it is meant to **Debug** Find and fix the problems in your algorithm or program	
5 min	**Model/- model puzzle 2 - they watch as I use the step tool to find bug and model thinking** **We do -** **Kids do lesson 3 in groups and help each other.** - **Ask - what should we do first? Second? Third?** - **Have kids talk through - encourage all voices to be heard.**	**Do live puzzle #2 in code studio go over using Step tool** ***** Remind FDL /MLL of language tool - FDL MUST use French** **Other MLL get choice..**

		Do lesson 3 - **Use thinking and step tool .**
5min	**You Do (alone) -** **MUST do levels 4-5 -** *Dark green - ms light green - as white - ns - meeting standard* **TRY to do levels 6-7 -***a little above standard* **If you finish early:** **Try the challenge (level 8 & 10) -** *above standard*	**Use dashboard to check work** Available for questions
TBD	**Extension Activity:** For students who complete the assignment before their peers Challenge students to create a customized maze using graph paper and a randomly selected set of code blocks.	
10 min	**Exit Slip: Time to climb (one question to assess grasp of concept)** **As well as How did you feel about the lesson (emotional gauge)**	
	Related Services: Paras will restate multi step directions as needed. Reinforce named vocab. Remodel use of step tool if needed to ensure students can continue with self-discovery. Mr Mo - Amir Ms John - Jayden P **Differentiation/Mods/Supports:** **Extension for advanced:** Level 8 (challenging)/Lesson Extras **Supports:** Levels 3&4 - Beg Levels 5-7 - Int Levels 9-10 - int/adv **MLL:** Explicit vocab building - bug and debug Language tool - FDL - Using code.org in French Other MLL may change to native language if they choose	**HW: Finish remaining levels in Lesson + Lesson Extras if possible from wherever you left off**

Student Progress tracking:

The digital platform (code.org) has an LMS that allows me to see both the progress of the students as well as the code they write for each specific level within each lesson which allows me to re-group and re-teach.