Microsoft

Hour of Code 2021: TimeCraft

Train the Trainer Presentation



MINECRAFT EDUCATION EDITION

Welcome to
Minecraft Hour of Code 2021: TimeCraft



How to prep for CS Education Week

- Install Minecraft: Education Edition by visiting aka.ms/HourofCode2021
- Watch the 5-minute Video Tutorial
- Play through Hour of Code 2021: TimeCraft
- Download a copy of the answer key
- Read through the Educator Guide
- Check out the Extension Activities for integrated CS lesson plans
- Test out your knowledge using the Kahoot! quizzes
- Go Beyond the Hour of Code with these fun worlds!
- Do you have additional questions? Check out the FAQ.



How to run your 1-hr session

- **Introduce yourself** (2 min)
- Introduce the **Theme of the lesson** – found in Educator Guide (1 min)
- Share your screen and Watch the walkthrough video (2 min) (make sure to share audio!)
- Introduce **Lesson Concepts –** found in Educator Guide (and on slides 5-8) (5 min)
- Go over **Tips and Tricks** (slide 9-10) (3 min)
- Share your screen, open the world and **play through the first activity** (intro + Big Band Jazz), have students follow along (10-15 min) Use the student –facing slides for additional support.
- Have students **complete 2 more activities on their own**, invite them to ask questions if they have them (20 min)
  - Have the answer key on hand
- **Lesson Conclusion (slide 12-14)** (5 min)
- Remaining time for Q&A from students ☺



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How is computer science used in my hobbies or in different jobs?



Computer Science

is

Everywhere and

FOR EVERYONE!



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Are you ready for an adventure through time?

As a computer scientist for the Institute of Major Time Errors, it's your job to correct the mysterious Time Splits appearing in history and to find who (or what!) is causing them.

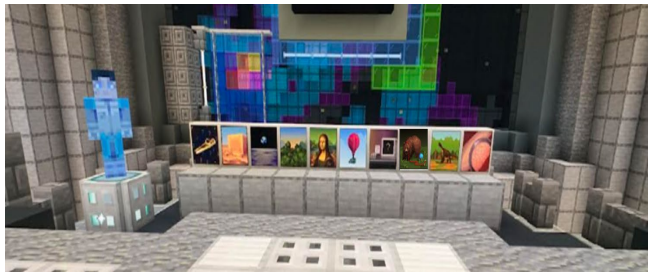
Will you help fix the Time Splits and save the future using your coding superpowers?

In your TimeCraft mission, you will need to:

- Travel back to exciting moments in world history
- Code your Time Agent to fix three Time Splits
- Use the clues to identify the Culprit (who or what is causing the Time Splits)

Important Vocabulary

There are some important things for us to understand before we begin playing– let's review some concepts first!

Time Agent	Institute for Major Time Errors	Time Split
This is the robot we are going to code to help us solve the Time Splits. 	As a computer scientist, you work for the Institute for Major Time Errors. You monitor and maintain the order of time. 	This is a big problem (or change) that has occurred within the Timeline of Earth's history. These are displayed in the mainframe. 

Tips & Tricks

Draw a picture

- Encourage students to draw a picture of the path they're planning for the Agent to help them plan out and adjust their variables

Immersive Reader

- Students can click the Immersive Reader icon to have text read aloud or translated



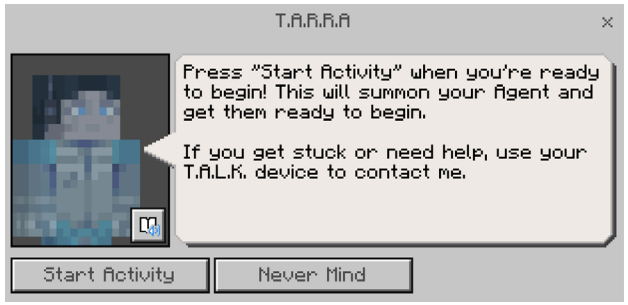
Immersive Reader can be opened inside Minecraft to read signs and NPC dialogue! It is incredibly helpful!

It's great for extra help for reading, including translating the text and reading it aloud.

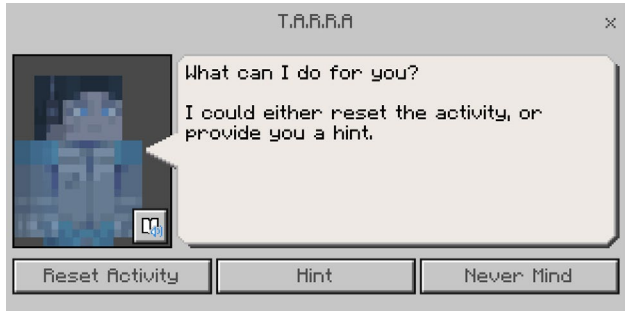
How to use Immersive Reader in Minecraft: Education Edition https://youtu.be/BkmFIpSDJ7A

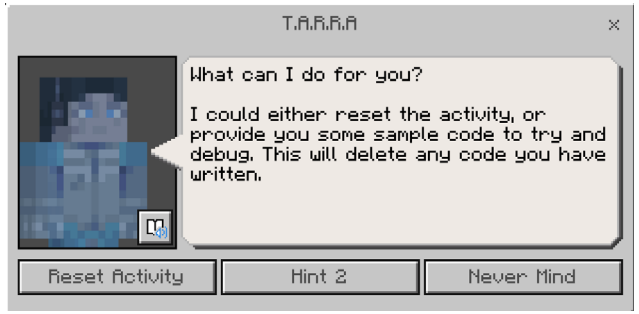
Teleport, get hints, & more

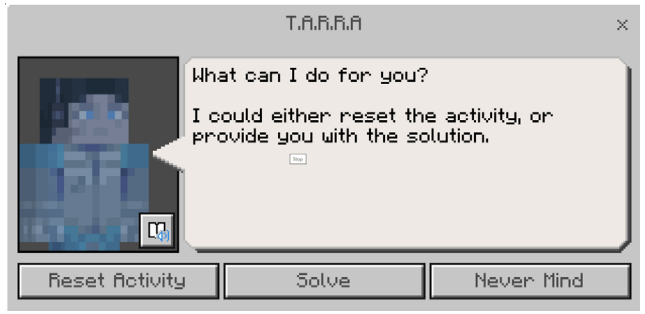
- TARRA is the AI (artificial intelligence machine) who will guide students throughout the game.
- Students will be given a communication device called T.A.L.K. (Time Agent Link Key)
- To get help from T.A.R.R.A., receive a hint, reset or solve the activity, or teleport back to the Timeline Computer, students can right click the device.













Coding Challenges (Just choose 3 – you can always replay!)

Challenge 1: Big Band Jazz
Challenge 2: Great Pyramid at Giza
Challenge 3: Mission Moon
Challenge 4: Great Wall of China
Challenge 5: Mona Lisa
Challenge 6: First Flights
Challenge 7: First Programmer
Challenge 8: Human's Best Friends
Challenge 9: Paleontology Puzzle
Challenge 10: Elements of Discovery



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https://aka.ms/HOC21educatorguide

Recap

What you've done today:

- Learned about coding concepts including algorithms, sequencing, debugging, and maybe even loops.
- Learned how CS is everywhere – in all our passions, interests and future careers.
- Programmed the Minecraft Time Agent to save the future!



Reflection

- What was your favorite part of the Hour of Code?
- What was the most challenging part of the Hour of Code?
- How did you use computer science skills today?
- What is one new thing you learned today?
- Why is computer science important for all people?
- Would you like to try Minecraft: Education Edition again?

Certificate of Completion

aka.ms/HOC21certificate



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