Go Seek! Drone Rescue and Recovery in Fairmount Park

Sample DAILY Lesson Plan

Please note that this lesson plan utilizes the
Culturally Responsive Framework introduced by Dr. Gholdy Muhammad

Lesson & Date: Go Seek! Drone Rescue and Recovery in Fairmount Park

Teacher: Monique Carter

Name of Lesson

Go Seek! **Day 1**

Length of Lesson: Briefly write the anticipated length of the planned lesson in days and indicate the number of minutes per class session.

5-7 min	Narrative/Spark/ Anticipatory set
30 min	DIRECT INSTRUCTION a) Coordinate plane vocabulary b) Coordinate Plane Practice
15 min	DRONE TRAINING Early finishers can begin their drone training as other students finish their coordinate graphing exercises/practice. a) Norms for Drone Use i) Create together with students or introduce b) Pairing and Coding w. Blockly (lesson 1.1): The lesson teaches students to pair and begin to code their drone. i) https://learn.robolink.com/lesson/0-4-pairing-and-coding-with-cde-blockly/
5-7 min	REVIEW ● Review one of the Quadrant graphing assignments DISCUSSION ● How can we relate this learning to the operation of a drone?

Students' Identities and Background: Write a brief description of the students' identities—including their cultural identities. Who are the students who will be taught in this class?

(varies based on class)

Learning Goals	**Identities:** How will your teaching help students to learn something

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Include the four HRL learning goals. These goals must be clear. They are also measurable/ assessable and should be linked to students' cultures/identities, personal and academic needs, and district learning standards. Objectives for excellent lesson plans should be written to advance students' identity development, skills/proficiencies, intellectual development, and criticality. You may begin statements with "Students will…/Students will be able to," or use direct/action verbs to state what students will do during the teaching and learning.	about themselves and/or others? (varies with classroom) **Skills:** What skills and content learning standards are you teaching? Students will learn more or review the vocabulary and basics to graphing points on a Cartesian graph. **Intellect:** What will your students become smarter about? Students will gain an introduction to search and rescue utilizing a drone while laying the foundation for coordinate graphing and drone location. **Criticality:** How will you engage your thinking about power, equity, and anti-oppression in the text, in society, and the world? Students will note the demographics of Chester County, Pa. and use inforamtoin to make comparisons with different neighborhoods in Philadelphia. **Joy:** Preparing to place one's hands on a drone I hope will be the quintessential joy students hold on to as they are training and working with the drones.
Layered Texts List (include authors) the selected texts you have chosen to support student learning (including print and non-print sources; links). Attach copies of all supporting, layered text.	-Video shows convicted murderer Danelo Cavalcante's escape from prison (11 Alive, NBC news). Students see Cavalcante crab walk up the wall when he maneuvered barbed wire to escape prison. -"News Article These Citizens are Looking for Escaped Inmate Danelo Cacalcante; Police are not pleased." (The Philadelphia Inquirer, September 12, 2023) Students review the article to learn about the community response to man-hunts.
Vocabulary & Concepts Include the central vocabulary words and concepts from the central reading	Manhunt, crab walk, coordinates, origin, axes, search and recovery
Student Spark State how the teacher will get students excited and engaged in the learning to come. This is an opportunity to include multimodal text and critical questions.	-Share YouTube video of how Danelo Cavalcante escaped from a Chester County prison in the summer of 2023. Search and Recovery or the all-out manhunt of Danelo Cavalcante was a community affair when locals used their drones to canvas parts

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This should only be about 5–7 minutes.	of Chester County. Cavalcante had the community in Chester County on edge for 13 days until he was caught. In Chester County, there is a boarding school. Can you imagine being a parent from New York and sending your child to a boarding school in Chester County, and then finding out an escaped prisoner is running around? How do you think a parent would feel? Discussion Points: What do you think is the difference between a Manhunt and a Search and Recovery? What are some similarities? How would this manhunt be different without the use of drones?
Body of Lesson Write out an overview of the entire lesson plan	-Narrative -Direct Instruction c) Coordinate plane vocabulary i) coordinate plane, x-axis, y-axis, origin, plane, quadrants, ordered pairs ii) Identifying given locations on a coordinate plane d) Coordinate Plane Practice i) Level 1: Graphing in Quadrant 1 ii) Level 2: Graphing in all four Quadrants iii) Level 3: Graphing to make a figure, design, or shape in the 1st Quadrant or all four quadrants -Drone Training Early finishers can begin their drone training as other students are finishing coordinate graphing exercise/practice. c) Norms for Drone Use i) Create together with students or introduce d) 1.1 Pairing and Coding w. Blockly: Lesson teaches students to pair and begin to code their drone. **i) https://learn.robolink.com/lesson/0-4-pairing-and-coding-with-cde-blockly/**
Assessment For each learning goal, write out how each will be assessed.	Graphing on the coordinate plane using coordinates • Level 1: Graphing in Quadrant 1 • Level 2: Graphing in all four Quadrants • Level 3: Graphing to make a figure, design, or shape in
Closure State what the teacher will do to close	REVIEW • Review one of the Quadrant graphing assignments

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the lesson.	DISCUSSION ● How can we relate this learning to the operation of a drone?