

The Great Supply Rescue



Overview

In “The Great Supply Rescue”, students work in small groups to program Dash to carry school supplies to a drop-off area. They solve clue-card riddles to identify their supplies, estimate distances, and program Dash to deliver the supplies (indicated by graphic cards on a cup) to a designated destination.

Objectives

- Write a program using drive and turn blocks to guide Dash.
- Estimate distances in cm.
- Test code and adjust parameters.
- Communicate with teammates and read clue cards.
- Successfully deliver supplies to the drop-off area.

Subjects

Coding

Math

Language

Target Ages

6-11 years

Time Required

40-50 minutes

What You'll Need



Dash

Downloadable Materials



[Clue Cards](#)



[School Supply Image Cards](#)

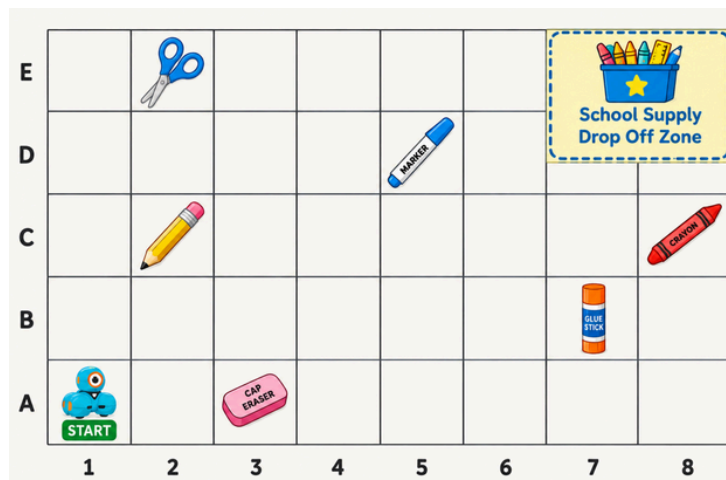
Other Supplies

- 1 Blockly-compatible device per Dash
- Plastic Cups
- Tape
- Gripper (Optional) Dash can grip and carry the cup or items to the drop zone

Step 1: Lesson Preparation

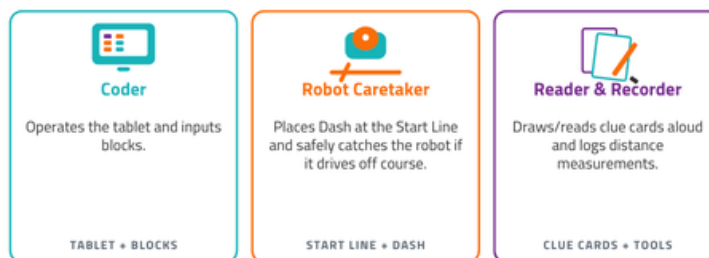
Prep the Materials:

Print and cut out the 5 Clue Cards. Each group will be given the full set. Print out the supply image cards and tape them to the cups. Students will push the cups into the drop-off area.



*Suggested mat/floor setup

Review Group Roles: Define the team positions to keep management smooth



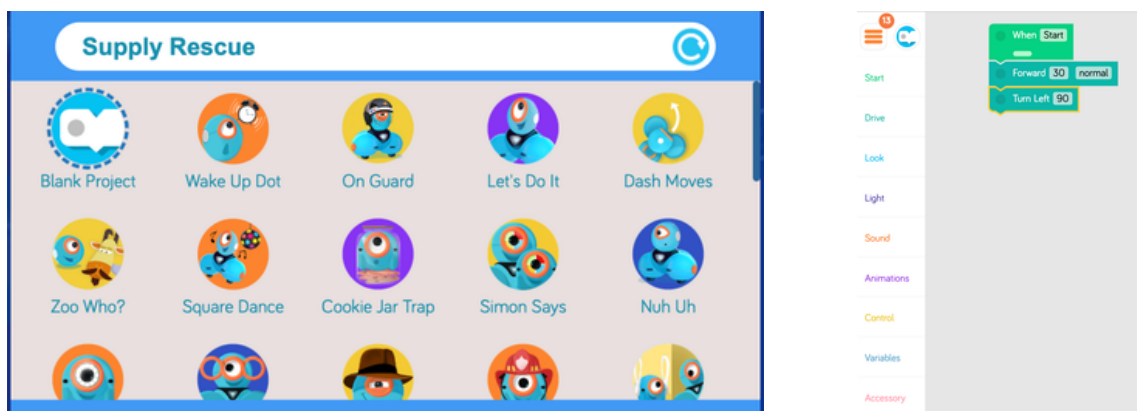
Step 2: Lesson Instruction

Hook the Class: Present the mission: "The classroom supplies are scattered everywhere, and we need Dash to clean them up and deliver them all to the drop-off area. You can see the supplies on each cup. You will have a clue card to read and decide which supply needs to be gathered and pushed into the drop-off zone."

Code Demonstration:

Create a project in Blockly. You will click on 'My Projects', 'Create New', then 'Blank Project'. You can change the name of the project for this lesson to demonstrate that feature for students.

Project or show a brief 2-block code in Blockly (Drive Forward + Turn) to remind students how to control distance in centimeters and change turn angles.



Step 3: Lesson Facilitation and Support

- **Circulate and Observe:** Walk between groups to monitor teamwork, ensure roles are rotating, and enforce safe robot handling (two hands on Dash, keep on the floor).
- **Guide Debugging:** When Dash misses an item, prompt students with questions rather than giving answers: "Did Dash overshoot or fall short? How many centimeters do you need to add or subtract?"

Conclusion

Lead Discussion: Ask 2–3 reflection questions:

- "Which supply item was the most difficult to reach and then move into the drop-zone and why?"
- "What changes did your group make when Dash missed a target on the first try?"