

Lesson 1: What's Stormwater?

Students learn the basics of a watershed and stormwater, identifying key terms, and applying those terms over the next four lessons.

Teacher Preparation

- Ensure students have access to 1:1 devices.
- Obtain at least one copy of Cloudburst game. Downloadable copies can be found at [City of Fort Wayne](#).

Materials Needed

For the class

- Google Slides Choice Board: [LINK TO Stormwater Choice Board PowerPoint](#)
- Cloudburst Game
- Headphones

Student Activity

Setting Up the Question

This week we are learning about stormwater, what it is, where it goes, and how we can help it get there. But first, we need to learn about a lot of terms and ideas to understand the life cycle of water.

1. PRETEST

Before diving in, pretest students with a Kahoot for a basic understanding of what they already know:

<https://create.kahoot.it/share/nonpoint-source-pollution/8ca6d5fc-3da7-4e9d-a7c8-12f9dccbcb42>

2. INTRODUCE NEW TERMS

In order to better understand terms within a watershed, students are invited to complete the Stormwater Choice Board:

[LINK TO Stormwater Choice Board PowerPoint](#).

As a class, watch the introductory video (Slide 2).

From there, explain that students need to complete at least four choices from the choice board

NOTE: You can determine how many students should complete based on the experience level of your students and time available. These slides can also be done as a whole class activity.



Science Standards:

6-8.E.1 Identify the criteria and constraints of a design to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.

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Lesson 1: What's Stormwater? (continued)



3. GAMING YOUR WAY THROUGH IT

As students complete the Choice Board, offer the game Cloudburst to play. The game is for up to 4 players, but several can watch, they can work in teams, or you could obtain several copies (enough for groups of 4 in your classroom).

While they are playing the game, remind students of terms they've just learned and encourage them to use those terms in the game.

4. BRING IT ALL TOGETHER

Based on the Choice Board and Cloudburst, ask students to name important terms they learned. (This could also be done as a turn and talk).

Write the important terms on the board as students report which ones they absorbed.

Why are these terms important when talking about stormwater?

Are there other terms that you think should be included?

Check for Understanding

Near the end of class, replay the Kahoot to check for basic understanding of watershed and stormwater flow:

<https://create.kahoot.it/share/nonpoint-source-pollution/8ca6d5fc-3da7-4e9d-a7c8-12f9dccbc42>

Drawing Conclusions

Notebook Reflections: Remind students that they learned a lot of new terms today. Have them write their favorite term in their notebook, what it means, and why they enjoyed learning about it.

Important Terms

Watershed
Outlet
Headwaters
Pervious
Impervious
Non-point source
pollution
Storm drain pipe
Wastewater Treatment

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