



## Y-CITYSCI: A Youth-Led Citizen Science Network for Community Environmental Assessment

Environmental Assessment: Lesson 8

Grade Level: Middle school

Duration: 1 hour

### Natural and Built Environments with Guest

#### Next Generation Science Standards

Disciplinary Core Ideas:

ESS3.C: Human impacts on Earth systems

ESS3.A: Natural Resources

Crosscutting Concepts:

Cause and Effect

Stability and Change

Science and Engineering Practices:

3: Planning and Carrying Out Investigations

#### Objectives

1. Students will meet a real scientist and learn about the tools and content used in their research.

#### Materials

- Guest scientist
- Drones (or other mapping or land surveying tools)

#### Activities

**Bell Ringer:** Review the natural and built environment information that the students learned in the previous session. Introduce the guest scientist and go over how students are expected to behave and treat a guest.

**Activity:** Invite a guest scientist that is an expert in sciences related to natural and built environments, such as geography. Have the guest introduce themselves along with the education and research experience they have. They should hold a discussion about the potential effects human built landscapes have on the environment.





They should spend the remainder of the class period teaching the students additional information about landscapes and mapping, as well as introduce tools they use in their research (such as drones) that help to map and survey land. Allow students to have hands-on practice using tools if possible.