

Module 01: Introduction to Urban Ecology

**Urban EcoLab** 

April 2021

#### Lesson Plan - The Place of Cities in Ecosystems

Center for Urban Resilience

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# LESSON 4: THE PLACE OF CITIES IN ECOSYSTEMS

#### OVERVIEW:

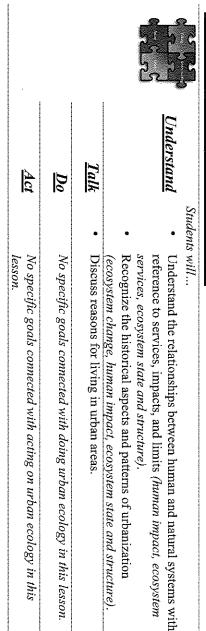
ways that human systems interact with environmental systems. they developed within the context of ecosystems. In this lesson, students will explore the This lesson serves as an introduction to the history and development of cities and how

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#### SUB-OUESTION:

How do cities impact the ecosystem? How are cities impacted by the ecosystem?

# Ways of Knowing Urban Ecology:



#### PREPARATION:

#### Time:

1 class period

#### Materials:

#### Activity 4.1

Chalk or white board

#### Activity 4.2

- Computer and projector
- PowerPoint on Urban Growth

#### Activity 4.3

- Student worksheets
- Computer and projector (optional)
- Chalk or white board

## INSTRUCTIONAL SEQUENCE

Activity 4.1: Thinking About the History of Cities

- Services, Human Impacts, and Limits. In preparation for the lesson, write the following terms on the board: Ecosystem
- 2 Tell your students they will be thinking about the place of cities in ecosystems.
- w example, it is fine to think of things like banks, utility companies, hotels, the city have to deal with the scientific or environmental aspects of the terms. For your students to give you words, concepts, synonyms, or ideas that they think of are held). government, or even religious institutions that provide services (or where services when they think of each term. Right now, what they provide does not necessarily Ask your students to do a free-association brainstorm for each term. That is, ask

#### Activity 4.2:

- questions and key ideas for the slides. perspective. A teacher version of the PowerPoint is included with potential students to the concept of studying the urban environment from a scientific Begin the power point on Urban Growth. This presentation will introduce
- As you are sharing these slides with the students, try to elicit their ideas about urban growth. These are concepts we will revisit multiple times over the course of the year.

#### Activity 4.3:

- Project the image of the United States at Night (found in the student worksheet). Ask the students to identify patterns that they see.
- 0 Some possible responses include: empty areas, populated areas near water, coast lines, deserts, and mountains
- 2 Students should then complete the lesson 4.3 worksheet answering the analysis questions.

### Concluding the Lesson:

services, human impacts, and ecological limits in your discussion Lead a discussion reflecting on the question: Why do people live in cities? (opposed to why do you live in a city?). Reinforce the ideas of ecosystem