

# PCPPIRETEACH

## Campus Ecosystem Fieldwork Investigation

### Orientation:

- **Time:**
- **Weather:**
- **Temperature:**
- **Location (Where are we?):**

**Focus Question:** What are some of the biotic and abiotic parts of the garden ecosystem and what are their relationships to each other?

**Team Hypothesis:** Please make a prediction which answers our focus question. Be sure to give reasons for your thinking. EG. We think that...because...

**Silent Observation & 5 Minute Quick Write:** For the first 5 minutes in this ecosystem I'd like you to sit silently and record what you are seeing, hearing, and feeling.

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## Biotic or Abiotic

### A 1 Meter Transect

Working in teams you will conduct a study of the biotic and abiotic parts of our campus ecosystem.

#### Procedure:

- Lay the 1 meter transect line across a section of the ground. Please notice that the line is marked at 10 CM intervals. You may not move the line once it is in place!
- Record all the biotic and abiotic specimens you see at each interval on your transect. Record the name and how many you see. Record this information on the Data Chart.

1 Meter Transect Data Chart

10 CM	20 CM	30 CM	40 CM	50 CM	60 CM	70 CM	80 CM	90 CM	100 CM
Biotic	Biotic	Biotic	Biotic	Biotic	Biotic	Biotic	Biotic	Biotic	Biotic
bean grass wood chip stick	leaf dead grass fly	dead leaf piece of cardboard	bird stick ant grass	bug	fly hair wood chip rope	purple bag cardboard dead grass	wood chips dead grass butter fly	dirt wood chip	wood chip dry grass clothing tag cardboard
Abiotic	Abiotic	Abiotic	Abiotic	Abiotic	Abiotic	Abiotic	Abiotic	Abiotic	Abiotic
plastic rock air water	rock air water	onion peel air water	air water	apple sticker air water	air water	onion peel air water	longboard spring air water	air water	air water

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## **Campus Ecosystem Final Reflection**

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**For our last 10 minutes please sit silently and in a written reflection please share what your team discovered about the relationships between the biotic and abiotic parts of the garden ecosystem. In what ways are they interdependent? How did what you discovered compare with your team hypothesis?**