Lesson 4.1 – Capstone Launch: Food, Heat, and the Future of Our Neighborhood

Quarter 4 · Community Capstone · Week 31

Name: _____ Partner: _____ Date: _____ Period: _____

Big Question: How are heat and urbanization changing food access and growing conditions in our neighborhood, and what can we do about it?

Word Bank: urbanization · impervious surface · urban heat island · food desert · food access · tree canopy · community asset · problem statement · stakeholder

My Task

Record surface temperatures and community assets.

Location	Surface	Temperature (°C)	Shade?	Notes
1				
2				
3				
4				
5				
6				

Support: Provide a problem-statement frame ("In our neighborhood, ___ affects ___ because ___. We will investigate ___.").	**AP Challenge:** Calculate the temperature difference between surfaces and rank possible interventions by expected cooling.

Think & Respond

1. Our capstone problem statement:

2. Who are the stakeholders?

AP EXAM PRACTICE

(MCQ) Which change would most likely reduce the urban heat island effect in Phoenix? (A) Replacing trees with asphalt parking (B) Increasing tree canopy and using lighter, reflective surfaces (C) Adding more impervious surfaces (D) Removing shade structures

EXIT TICKET

1. Report your hottest and coolest surface readings.

2. Explain the difference.

3. Write your problem statement.