**LEWISBURG AREA SCHOOL DISTRICT**

**LESSON PLAN**

**Teacher Name: \_\_\_\_\_Van Wagner\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_AP Enviro**

**Topic: \_\_\_Climate change Date of Lesson: \_\_Class #39 and 40**

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| **LESSON ESSENTIAL QUESTION**: | How do we balance human needs and wants with limited natural resources available? |
| **STANDARD / LEARNING TARGET:** | Objective: Students will investigate land cover changes in the Bull Run Creek Watershed and apply that to the concept of the heat island effect.. |
| **ACTIVATING STRATEGIES**:  (Anticipatory Set) | Bell Ringer: What characteristic defines a megacity?  a) a city that has more than 10 million inhabitants  b) a city that grows by approximately 1,000 new immigrants each day from overpopulated rural areas  c) a cluster of small or medium-sized cities, each with population of less than 1 million  d) a suburban sprawl of developed suburbs  e) a city that has over 100 high-rise buildings  Answer: a) a city that has more than 10 million inhabitants. |
| **KEY VOCABULARY**: | Sprawl, urban, rural |
| **RESOURCES:** | Teacher slide show, demonstration, and lecture. |
| **TEACHING STRATEGIES**: | Complete chapter 9 quiz  Bio-Bottle Preliminary report assignment:  Over break write brief report that discusses the following:   * Purpose * Basic procedure (final lab report will be detailed but you can choose to be brief in this preliminary report) * Preliminary results to date. * Hypothesis of what will happen over remainder of experiment.   Get a macbook and log onto:  todaysmeet.com/apeslahs  Each student is expected to make at least 2 comments related to the movie / climate for 5 points.  Teacher can retrace all posts, stay school appropriate!  Watch movie |
| **EXTENDED THINKING ACTIVITY / ASSIGNMENT:** | Complete Chapter 9 questions |
| **SUMMARIZATION/ CLOSURE:** | Wrap- up / class discussion |