





## **CyGaMEs Selene Three-star Badge**Earth and Space Science

## The earner of this badge has:

- 1. Completed the CyGaMEs multi-award-winning instructional environment *Selene: A Lunar Construction GaME*. This accomplishment required two to ten hours (and sometimes more) of effortful concentration and problem solving.
  - 2. Discovered how to construct the Earth's Moon and then replicated 4.5 billion years of lunar history, peppering the moon with impact craters and flooding it with lava flows.
    - 3. Discovered and correctly applied three fundamental Earth and space science concepts involved in lunar and planetary accretion: mass, heat, and radiation.
    - 4. Successfully controlled an integrated system of 27 Earth and space science phenomena.
    - 5. Exhibited an academic mindset and perseverance while solving conceptually complex system.
      - 6. Worked hard and worked smart behaviors that are critical for 21st Century success.

## **Related Activities:**

Log back into Selene <a href="http://selene.cet.edu">http://selene.cet.edu</a> and meet all seven Selene goals to earn the 7-star lunar geology badge. Discover and successfully apply all seven Selene geological processes: heat, radiation, density, mass, impact cratering, volcanism, and lava placement. The Selene game system of 100 connected concepts aligns with the Next Generation Science Standards for Earth and space science.

## **Current Activities:**

CyGaMEs Selene: A Lunar Construction GaME website: http://selene.cet.edu



This activity required a minimum of 2 to 5 hours.