

Date \_\_\_\_\_

**Aim:** How have Cultural Changes affected Environmental Sustainability?

Earth Formation: 4.6 billion years ago

<p><b>1. Hunting-Gathering Societies (approx. 200,000ya)</b></p> <ul style="list-style-type: none"> <li>a. nomadic (wandering) groups</li> <li>b. low resource use - used enough to perform daily activities</li> </ul>	<p>Environmental Impact:</p> <div style="border: 1px solid black; padding: 10px;"> <ul style="list-style-type: none"> <li>- minimal environmental impact -</li> <li>- never exhaust resources because of constant movement to new territory</li> </ul> </div>
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<p><b>2. Agricultural Revolution (10,000-12,000ya)</b></p> <ul style="list-style-type: none"> <li>a. nomads → agricultural communities</li> <li>b. “slash and burn” cut trees to clear land and burn stumps to add nutrients to soil</li> <li>c. shifting cultivation to prevent depletion of soil nutrients</li> <li>d. early subsistence farming – growing only what your family needs</li> <li>e. metal plows helped created bigger farms that produced more food</li> <li>f. less farmers needs → urbanization</li> </ul>	<p>Environmental Impact:</p> <ul style="list-style-type: none"> <li>a. extensive land clearing (wood [biomass] for fuel and building)</li> <li>b. cleared land poorly managed (overgrazing, soil &amp; water degradation)</li> <li>c. increased demand for nonrenewables (metal and mineral resources)</li> <li>d. basic beginnings of urban problems (sewage, pollution, disease)</li> </ul>
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### 3. Industrial Revolution (1760-1840)

- a. shift to nonrenewable fossil fuel (specifically coal)
- b. increased technology
- c. reduced need for farmers because machines did the work
- d. city migration for jobs
- e. large scale production of goods

#### Environmental Impact:

- a. increased population growth
  - better medicine
  - better overall living standards
- b. increased energy consumption
- c. increased pollution
- d. workplace-related diseases

### 4. Information/Globalization Revolution (present day)

- a. interconnectivity to understand & solve problems  
v. information overload
- b. end to "boundaries"

#### Environmental Impact:

- a. travel / shipping  
increased transport of  
invasive species  
(ex. Asian long-horned beetle)
- b.. disease transmission  
(West Nile, Ebola, Zika)