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| **21st Century Lesson Cycle Template** | | |
| **Grade: 7 Subject: Science**    **Unit: Ecosystems** | | |
| **Driving Question:** | | |
| **Curriculum Outcomes:**  306-3 describe interactions between biotic and abiotic factors in an ecosystem | | |
| **Expected Time:** | | |
| **Resources: [like flipped videos, iPads, etc.]**  [**http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/ecosystems.htm**](http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/ecosystems.htm)  <http://www.pbslearningmedia.org/asset/lsps07_int_ecosystem/> | | |
| **Lesson Procedure** | | **21st century skills** |
|  | Teacher does (I Do):  Explain to the class that all parts of an ecosystem can be grouped into biotic (living) or abiotic (non-living) things. Provide students with the list of factors and ask them to sort them into living or non-living, biotic or abiotic.  Go through the powerpoint presentation with the class. | find, validate  remember, understand  **collaborate, communicate**  analyze, synthesize  **critical thinking**  evaluate, leverage  **create**, publish  **citizenship** |
| Individual student work (You Do)/ Group work (We Do):  Handout the worksheet | find, validate  remember, understand  **collaborate, communicate**  analyze, synthesize  **critical thinking**  evaluate, leverage  **create**, publish  **citizenship** |
| Class share (We Share):  Have students share their drawings. | find, validate  remember, understand  **collaborate, communicate**  analyze, synthesize  **critical thinking**  evaluate, leverage  **create**, publish  **citizenship** |
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| **Lesson Wrap Up:**  **Review Biotic and Abiotic components of an ecosystem.**  **Ticket to Leave: Students should have the sorting part of the worksheet complemented** | | |
| **Differentiation/Modification/Enrichment:**  Students may choose to include only visual components. Students can include more than one example of each component, if they wish. | | |
| **Assessment:**  See rubric. | | |
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