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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 [x]  **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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