**Middle School STEM Science Lab/Activity Planner**

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| Name of Lab/Activity: Biome Brochure | | | Grade: 6 |
| California Science Standard(s):   * 5.d Students know different of organism may play similar ecological roles in similar biomes. * 5.e Students know the number and types of organisms an ecosystem can support depends on the resources available and o abiotic factors, such as quantities of light and water, a range of temperatures, and soil composition. * 7.d Communicate the steps and results from an investigation in written reports and oral presentations. | | | |
| Learning Objective/Goal:   * Students will be able to identify characteristics of an ecosystem * Students will be able to describe how organisms including producers, consumers, and decomposers live together in and environment and use existing resources | | | |
| Language Objective/Goal: (based on California Common Core Standards)  6.2 Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content | | | |
| Materials & Resources:   * Internet access * Microsoft Publisher or other * Student handout * Student notebook | | | |
| Procedure:   * Research the assigned biome and learn as much as you can about: * The critical characteristics that make that biome unique. * Names and description of 1-3 animals & plants who live in that biome. * Adaptations, physical or behavioral that help that animal survive in its habitat. * Collect images or photos that will help you with teaching about this biome and its habitat. * Create a book or brochure that will support your learning about the biome. | Teaching Notes: (include timing)  **3 class periods** | | |
| Math Connection:  Students will be constructing charts and tables to find temperature and precipitation of different biomes, and convert the temperature in metric system. | Teaching Notes:: | | |
| Technology Extension of Learning:  Web-based activity using individual computers/laptops with internet access  Link:  <http://www.mbgnet.net>  <http://www.blueplanetbiomes.org/>  <http://www.ucmp.berkeley.edu/exhibits/biomes/index.php> | Teaching Notes:  Check ahead of time that the laptops are available and working. | | |
| Formative Assessment: (please attach a copy)  See attachment below. | Teaching Notes  Project images. Use white boards or class response system | | |
| Strategies for EL and Special Needs Students:  Provide written instructions, model and think aloud, | Vocabulary:  Biome, habitat, niche | | |
| Alignment in science unit: (Brief description of lessons taught **prior to & after** this lab/activity)  **Unit:**  Ecosystem, abiotic and biotic adaptations, limiting factors. Weather and climate | | | |
| Brief description of lessons taught **after** this lab/activity:  Students will be extending their knowledge by learning more about ecology in different places. | | | |
| Lab/Activity adapted from: (website, textbook, etc.)  *http://www.nationalgeographic.com/xpeditions/lessons/01/g68/dogstails.html http://erg.usgs.gov/isb/pubs/teachers-packets/mapshow/activity4.html http://www.windows.ucar.edu/tour/link=/teacher\_resources/teach\_taterland.htm* | | Formative Assessment adapted from: | |
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| This lesson was developed by: | | | |
| Teacher’s Name | | Currently Teaching at: (School & District) | |
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Macintosh HD:Users:karenkaneda:Desktop:Biome worksheet.pdf