STEM Bertling Lesson Plan

**Date: 12/5/2016**

**Grade: Kinder**

**Grade: 5th – 3rd**

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| **Big Idea:**  | **The Human Brain** |
| **Standard(s):**  | **Habits of mind for 5th through 3rd grade.**  |
| **Essential Question(s):** | **What area the parts of the human brain and what do they do?****What are the 7 levels of the classification system?** |
| **Vocabulary** | Cerebellum Brain STEMFrontal LobeParietal LobeOccipital LobeTemporal Lobe   |
| **Materials** | **Note paper** **Pencil** **Colored Pencils or Markers** |
| **5 E’s****(Opening & Work Period** |

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| **Component & Materials** | **Description** | **Activity “ Ideas”** |
| **Engage** | Teacher explain to the class that the class will be learning about the different parts of the brain. | This phase of the 5 E's starts the process. An "engage" activity should do the following:1. Make connections between past and present learning experiences
2. Anticipate activities and focus students' thinking on the learning outcomes of current activities. Students should become mentally engaged in the concept, process, or skill to be learned.
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| **Explore** | Teacher plays video of Mr.B teaching the lesson.[www.dhstem.weebly.com](http://www.dhstem.weebly.com)  | **Explore:** This phase of the 5 E's provides students with a common base of experiences. They identify and develop concepts, processes, and skills. During this phase, students actively explore their environment or manipulate materials. |

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| **Explain** | Students take notes as they create a diagram of the human brain. | **Explain:** This phase of the 5 E's helps students explain the concepts they have been exploring. They have opportunities to verbalize their conceptual understanding or to demonstrate new skills or behaviors. This phase also provides opportunities for teachers to introduce formal terms, definitions, and explanations for concepts, processes, skills, or behaviors. |
| **Elaborate** |  | **Elaborate:** This phase of the 5 E's extends students' conceptual understanding and allows them to practice skills and behaviors. Through new experiences, the learners develop deeper and broader understanding of major concepts, obtain more information about areas of interest, and refine their skills. |
| **Evaluate** |  | **Evaluate:** This phase of the 5 E's encourages learners to assess their understanding and abilities and lets teachers evaluate students' understanding of key concepts and skill development.  |
| **Closing**  | The video reviews the different parts of the brain as it revisits the essential question in closing. |