**Lesson Cycle**

**Lesson Title/Topic: 7th Grade Social Studies**

**Concept: Technology, Past and Present**

**Standards/Rationale: 113.19(b)(20)(A)**

**Compare types and uses of technology, past and present**

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| **Learning Target:** The student will create a presentation informing citizens of Galveston (circa 1900) of the oncoming hurricane, using 3 or more sources of technology. | **Assessment:** Video Presentation |
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**Materials:** PowerPoint, Hurricane Sound Effects, iPhone, Video of Galveston Hurricane

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| **Lesson Cycle:** **(Direct instruction)** |

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| **The teacher will:** | **The student will:** |
| **Focus/Mental Set: 3-5 Minutes**  As Students are entering classroom, a video is displaying images of cities, before and after a natural disaster along with news reports of meteorologist warning citizens. Examples include New Orleans, San Francisco, Fort Worth, and Moore, Oklahoma. | Observe video |
| **Teacher Input:**  Ask questions to student(s):   * What do the images have in common?   Answers include; *destruction, photos are before and after images, natural disasters.*   * What is different about the images and news reports?   Answers include; *different time periods, different types of technology used, and different locations.*   * What are the characteristics of a Natural Disaster?   Answers include; *loss of life, loss of property, created by nature.*  Instruct students to create a Venn Diagram comparing 9/11 and Hurricane Katrina.  Play PowerPoint of the Galveston Hurricane of 1900 include sound effects of a sea port and the winds of a Hurricane.  Final Slide will display the question, “Why were so many live lost in the Galveston Hurricane of 1900.  Introduce structure StandUp-HandUp-PairUP   * Start Time (10 sec.) * Call time     Ask Students:  If you had to experience an Earthquake or Hurricane, which would you choose and why?  Can we take a magical 8 ball and shake it to predict Natural Disaster? If not, what can we do? Explain forecasting to students.  What technological invention of today would have had the greatest impact on the people of Galveston, Tx on September 6, 1900, two days before the Hurricane? | * Discuss the questions. * Give answers * Create Venn Diagram * Discuss Venn Diagram * Stand up and walk around the room as if they were in an Earthquake. * Pair up with closest person. * Give answers |
| **Guided Practice:**  Ask question, “What other types of technology that we have today, could have saved the people of Galveston”.   * Observe and help students * Suggest Technology that would be beneficial. (Examples include radar, satellites, cell phones, social media, air planes, radio, weather apps, and television) | * RoundTable * Write one answer on a piece of paper and pass it to the person on their left. The next person is to do the same when given the piece of paper. **3-5 Minutes** * Students discuss answers * Students return to their original seats. |
| **Independent Practice:**   * Divide students into teams of four. * Have them create a 5-10 minute   presentation as if they traveled back in time to Galveston, TX. on September 6, 1900.   * Inform students that they are meteorologist from the present and are to give a life saving information to the community using 3 or more sources of technology. (Examples: iPhone, Weather Apps, Airplanes) * Let team members assign rolls to play in video. (reporters, cameraman, special effects) * Observe students and assist if needed. | * Form teams of four. * Share answers from previous Round Table Structure * Create concept of video and assign rolls to portray. (cameraman, reporters, special effects) * Make 5-10 minute presentation as if they traveled back in time to warn the citizens of Galveston in 1900 using at least 3 sources of technology. (Examples: iPhone, Weather Apps, Airplanes) |
| **Closure:**  Play a bloopers reel of weathermen reports. | Watch and laugh |

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| **Options:** |  |
| ***Enrichment:***  Invite a local meteorologist to visit the class and discuss technology that is used today to forecast the weather.  Example: Rick Mitchell and the Channel 5 Thunder Truck. | ***Reteach:***  Group teams of 4 together.  Compare the technology used for the first moon landing to the technology used in a classroom.  Give students the option of using technology used for the first moon landing or technology used in today’s classroom?  Discuss and compare answers. |

**Modifications/Correctives:**

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**References:**