\*Plan 3-6 Weeks from Planned Event Night, as this outline may not reflect needed worktime for projects\*

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|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Warm Up  **Lesson**  **Enrichment/Extension Activity** | Brainstorming- Beef and Beef Farming  Research, and save Vocabulary Sheet.  Word Cloud Activity. | Beef- Where are we now?  Jigsaw Lesson with Computers- 4 Groups   1. Beef History 2. Modern Beef Farms 3. Beef Consumption Rates/Trends 4. Beef Heredity- Varieties of Beef around the World   Reading Assignments. | Beef- Where are we now?  Gallery Walk and Presentation of Information.  Student must find Two Articles or resources to share about Beef technology, and one on how to make Beef Farms product healthier animals. | Beef- Where are we going?  Articles Discussion Part One- Technology and Farming.  \*Video Supplements | Beef- Where are we going  Articles Discussion Part Two- Healthier Animals, and better cuts of Beef.  \*Video Supplements  Genetics in Cattle- Create a Poster! |
| **Warm Up**  **PBL Lesson**  **Enrichment/Extension Activity** | Green Power  What is an Anaerobic Digester?  What is Wastewater Management?  Reading, and Video Supplements.  VR/Street View-Satellite View of farms.  Optional- Create a small scale digester, or use a Muddwatt to show what can be done with waste or dirt. (need several days leadtime to start this.) | Green Power  Community Impacts  Greenhouse Gas reduction methods.  \*Optimal Data Dig with NREL bites website. | Projects  Putting it all together.  Students will create final project by creating a mockup of a cattle operation. This may be done with models, 3d priming, cardboard boxes, | Projects  Putting it all together  Student will continue work on mock up farm with emphasis on what will be better locally, and what would be a good location, etc. | Projects  Putting it all together  Students will create a book, use posters, and presentations to create a total picture to showcase project for event night.  Books, poster, and presentations can be later presented to younger students. |
| **Countdown Until Showcase Night** | 5 Days out- Send out any Final Communications to Family, Friends, School- Use email, social media, local websites. | 4 Day Out- Print all paperwork, worksheets, etc for Event. Keep a Copy in case you need to make more. | 3 Days Out- Make sure all projects, books, posters are secured, and accounted for. Double check all list. | 2 Days out- Make a Schedule for Rotation, timeline, or sequence of events that is shared with everyone. | 1 Day out- Run Final checklist, Resend Communication about time, place, Try to plan any media support for this day. |

**\*\* Culminates with Family Night or Integrated with a School Function.**