|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Day 1** | **Day 2** | **Day 3** | **Day 4** | **Day 5** |
| Launch Event+ Structure of a Virus  5mins- Bell Ringer #1  10mins- Launch Event: Time Magazine letter  10mins-“What do we need to know?” chart  25mins-Structure of Virus Lesson + Activity  5mins- Exit Ticket #1 | Structure of a Virus + Virus Reproduction  5mins- Bell Ringer #2  10mins- Continue Structure of Virus  10mins- Virus Structure Discussion  25mins-Virus Reproduction Lesson + Team Polling  5mins- Exit Ticket #2 | **Investigation:**  Modes of Viral Transmission  5mins- Bell Ringer #3  10mins-Introducing investigation *“How does structure and function related to viral transmission?”*  40mins-Group Research | **Investigation:**  Modes of Viral Transmission  20mins- Wrap up research  20mins- Students will create an infographic  10mins- Students will write a brief summary accompanying the infograph  5min Bell Ringer #3 | Virus Article  5mins- Handout Rubric  10mins- Explain Rubric for Time Magazine Article  35mins- Students will write a professional news article about viruses  5mins- Students will upload articles on Google docs |
| **Day 6** | **Day 7** | **Day 8** | **Day 9** | **Day 10** |
| HIV/AID vaccine  5mins- Bell Ringer #4  45mins- 5E lesson *“Why do we not have a vaccine for HIV?”*  5mins- Exit Ticket #4 | Mutation Benchmark Lesson  Due: Virus Article  5mins- Bell Ringer #5  15mins- Types of Mutation Benchmark Lesson + Place Mat  30mins- Mutating DNA Sequence Activity  5mins- Exit Ticket #5 | **Investigation:**  Mutation Case Study  10mins- Pass out and explain Investigation handout  40mins- Group Research and create a poster. Driving question: “*What causes of sickle cell anemia?”*  5mins- Wrap up research and hang up posters. | Mutation Case Study + Intro Natural Selection  15mins- Socratic discussion about sickle cell anemia  35mins- 5E lesson “Natural Selection on Darwin’s Finches”  5mins- Wrap up and collect Material | Mutation Article  5mins- Bell Ringer #6  5mins- Handout Rubric for Time Magazine Article  35mins- Students will write a professional news article about mutation and upload articles on Google docs  5mins- Exit Ticket #6 |
| **Day 11** | **Day 12** | **Day 13** | **Day 14** | **Day 15** |
| **Investigation:**  Natural Selection  5mins- Bell Ringer #7  15mins- *“What is Natural Selection? How does it occur?”* Launch Event  35mins- Students in groups of 2 will research one of 4 processes of natural selection. | **Investigation:**  Natural Selection  Due: Mutation Article  5mins- Pass out Presentation Rubric  40mins- Continue group work and create presentation  5mins- Wrap up and save file  5mins- Exit Ticket #7 | **Presentations + Gallery Walk**  5mins- Students will hang their presentation around the room  30mins-Students will participate in gallery walk while filling out Q&A sheet  20mins- Socratic Discussion and Wrap Up | Revise Articles + Word Publisher  10mins- Pass back teacher revised Virus and Mutation Articles  15mins- Word Publisher Lesson  25mins- Students will peer edit articles  5mins- Wrap Up | Phylogeny of “Cell Phones”  5mins- Bell Ringer #8  45mins- 5E “How have cell phones evolved?” Lesson Plan  5mins- Exit Ticket #8 |
| **Day 16** | **Day 17** | **Day 18** | **Day 19** | **Day 20** |
| Phylogeny + Evidence of Common Ancestry  5mins- Bell Ringer #9  5mins- Video  30 min- Cladogram Worksheet and Venn Diagram  10 min- Collaboration  5mins- Exit Ticket #9 | Evidence of Common Ancestry  5mins- Video  15mins- Continue group work + create phylogenetic tree using evidence of common ancestry  10mins- Collaborate  15mins- Present phylogenetic tree  10mins- Group Discussion | **Investigation**  Phylogeny of Benghazi HIV  5mins- Bell Ringer #10  10mins-Review Benghazi incident and goals  10mins-Launch Event, driving question; “What is the relationship between the HIV strain in the region and HIV strain present in the 400 infected children?  25mins- Group work  5mins- Wrap up | **Investigation**  Phylogeny of Benghazi HIV  5mins- Pass out rubric  20mins- continue group work + create two phylogenetic tree(one proving innocence, one proving guilt)  10mins- Group Discussion, compare and contrast trees between groups  15mins- Revise tree  5mins- Exit Ticket #10 | Phylogeny Article  5mins- Handout Rubric for Time Magazine Article  45mins- Students will write a professional news article about viruses and upload articles on Google docs  5mins-Wrap up |
| **Day 21** | **Day 22** | **Day 23** | **Day 24** | **Day 25** |
| Documentary Script Writing  5mins- Handout rubric  15mins- Explain rubric for documentary script  10mins- Place students into groups of 4 & assigned roles  25mins- Students will write documentary script + upload on to Google Docs | Documentary Script Writing  Due: Phylogeny Article  50mins- Students will continue write documentary script + meet with teacher to check progress  5mins- Wrap up | Finish Script Writing + Revision  15mins- Students will finish writing scripts  20mins- Peer Edit Scripts  15mins-Revise scripts and turn it in  5mins-Wrap Up | Filming  15mins- Operating Camera lesson  15mins- Students will practice using cameras in the classroom  20mins- Start filming  5mins- Wrap up | Start Filming  5mins- Pass out rubric for documentary video 35mins- continue filming  15mins- download video on to a computer for Monday |
| **Day 26** | **Day 27** | **Day 28** | **Day 29** | **Day 30** |
| Video Sequencing  5mins- Handout Video Sequence worksheet  15mins- Video Sequencing Lesson  25mins- Practice using different effects.  10mins- Example of good documentaries | Video Sequencing  45mins- Continue Video Sequencing + compile all your articles into a “complete” Time Magazine  10mins- Wrap up & Discussion | Finish Video Sequencing  20mins- Continue video sequencing + Time Magazine  10mins-Peer Edit  15mins- Revise documentary  10mins- Arrange order of presentation | Documentary Viewing  5mins-Set up presentation  12mins- 1st group presentation (2mins Q&A)  12mins-2nd group  12mins- 3rd group  12mins-4th group  \*any extra time can be used for general criticism, feedback or comments about presentation | Documentary Viewing  5min- Set up presentation  12mins- 5th group  12mins-6th group  12mins-7th group  12mins-8th group  \*any extra time can be used for general criticism, feedback or comments about presentation |