### Video & Lesson Plan Titles (run times approximately 8 to 10 minutes)

**Anatomy**
1. **By Land or By Sea - Comparative Anatomy**: Aquaculture, Diversity, Evolution.

**Bacteria/Viruses**
2. **Super Bugs - Bacterial Drug Resistance**: Genetics of Bacteria
3. **Malaria - Researching New Solutions**: Health, Drug Discovery, Resistance
4. **Air War - Biological Weapons**: Plague Virus, Bioterrorism, Drug Resistance
5. **First Shot - Vaccinations**: Health, Smallpox

**Bioethics**
6. **Bioethics - Drawing the Line**: Bioethics, Stem Cell Research, Cloning
7. **The Cloning Conflict - Parkinson's Disease**: Therapeutic Cloning, Embryonic Stem Cell Research

**Bio-Technology**
8. **Got Silk - Biotech Applications**: Bio-mimicry, Protein Manipulation, Insects
9. **For Personal Use Only - Individualized Drugs**: Individualized Drugs, Disease Prevention
10. **A Green Light for Biology - Making the Invisible Visible**: Molecular Biology, Aquaculture, Jellyfish Protein
11. **Tissue Engineering - Building Body Parts**: Tissue Engineering, Organ Replacement
12. **Deadly Patterns - Toxicogenomics**: Toxic Chemical, Database of Toxins
13. **Xenografts - Alternative Transplants**: Transplants, Animal Virus, Anatomy, Medical Use

**Botany**
14. **Sweet Genes - A Very Sweet Protein**: New Sweetener, Biotechnology, Genetics
15. **Salt of the Earth - Engineering Salt-Tolerant Plants**: Salt-Tolerant Plants, Food Supply
16. **Cloning Around - Champion Trees**: Trees, Preservation of Species, Genetics

**Life Sciences Careers**
17. **Heal Thyself - Research Careers**: Cancer Research, Health, Research, Cancer
18. **A New Frontier - Systems Biology**: Systems Biology, OMICS Science
19. **Beyond the Classroom - Connecting Students to Real World Scientific Research**: Student Research

**DNA**
21. **The Secret of Life - Discovery of DNA Structure**: Structure, Crystallography
22. **Sugar Rays - Evolutionary Plant Theories**: Photosynthesis, Fossils, Bacteria

**Evolution**
23. **Send in the Marine - Help from the Oceans**: Shared Evolution, Aquaculture, Inner Ear
24. **From Slime to Sublime - Evolutionary Paths**: Similar Paths, Natural Selection
25. **Night of the Twisted Helix - Mutations & Natural Selection**: Survival of the Fittest, DNA Changes, DNA Analysis

**Forensic Science**
26. **A Link for the Missing - DNA “Fingerprinting”**: Identifying Children, Genetic testing/DNA Profiling
27. **Justice DNA - Freeing the Innocent**: DNA Profiling, DNA Evidence
28. **Naming the Dead - Forensics Identification**: DNA Analysis, DNA Identification

**Genetics/Heredity**
29. **All in the Family - Genetics & Family Health History**: Genetic Screening, Genetic Testing/Counseling
30. **Spry Worms - Aging Genes**: Aging, Telomeres, Immortal Genes
32. **On Down - Downs Syndrome**: Down Syndrome, Stem Cell Research
33. **Facts of Life - Gender Determination**: Gender, Behavior, DNA
34. **The Chosen Child - Screening Genetic Content**: Genetic Screening, Designer Babies
35. **To Hear - Genetic Deafness**: Hearing, Genetic Counseling
36. **Perfect Pitch - The Musical Gene**: Music, Heredity
37. **Rick-Taking Genes - Genes, Environment, or Both?**: Risk-taking, Depression
38. **Rover Redefined - Pet Genetics**: Pet Genetics, Genome Mapping, Pedigrees
39. **Testing Zygosity - Are Twins Identical or Not?**: Twins, Genetic Testing
40. **Avoiding Bottlenecks - Atlantic Sturgeon

**Human Health**
41. **The Next Supermodel - Zebrafish
42. **Bar Flies - Alcoholism**: Alcoholism, Scientific Method, Insects
43. **Are there Voices in the Genes - Schizophrenia**: Schizophrenia, Genetic v’s Environmental
44. **A Gene Called ACE - Blood Pressure**: Blood Pressure, Genetic Predisposition
45. **Cancer - Compiling the Catalog**: Cancer, Tissue Bank, Genetics
46. **Case of the Missing Gene - Breast Cancer**: Breast Cancer, Genetic Testing
47. **In the Blood - Leukemia**: Leukemia, Stem Cell Research
48. **The Diabetes Cure - Creating Hope**: Diabetes, Drug Discovery
49. **Fighting Fat - New Ways to Win**: Obesity, “Thin” Gene
50. **Skin Deep? Race and Disease**: Race and Disease, Genetic Disease Distribution
51. **Sickle Cell Anemia - Hope from Gene Therapy**: Sickle Cell Anemia, Donor Matching
52. **Rhythm and Snooze - Circadian Genes**: Sleep Patterns, Internal Clocks
53. **Quick Fix - Smoking in the Genes**: Smoking, Addiction

**Insects**
54. **Six-legged Spies - Bugs, Bombs, & Bioaccumulation**: Bioaccumulation, Bioterrorism
55. **Case of the Bad Hives - Genetically Engineered Honeybees**: Honeybees, Parasite Control/Pollination

*Made possible through the generous support of the Pfizer Foundation, National Academy of Sciences & the Howard Hughes Medical Institute*