

# Virginia Commonwealth University - Secrets of the Sequence FREE Videos & Lesson Plans Titles

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

<b>Anatomy</b>	1. <i>By Land or By Sea - Comparative Anatomy</i> : Aquaculture, Diversity, Evolution.
<b>Bacterial/ Viruses</b>	2. <i>Super Bugs - Bacterial Drug Resistance</i> : Genetics of Bacteria 3. <i>Malaria - Researching New Solutions</i> : Health, Drug Discovery, Resistance 4. <i>Air War - Biological Weapons</i> : Plague Virus, Bioterrorism, Drug Resistance 5. <i>First Shot - Vaccinations</i> : Health, Smallpox
<b>Bioethics</b>	6. <i>Bioethics - Drawing the Line</i> : Bioethics, Stem Cell Research, Cloning 7. <i>The Cloning Conflict - Parkinson's Disease</i> : Therapeutic Cloning, Embryonic Stem Cell Research
<b>Bio- Technology</b>	8. <i>Got Silk - Biotech Applications</i> : Bio-mimicry, Protein Manipulation, Insects 9. <i>For Personal Use Only - Individualized Drugs</i> : Individualized Drugs, Disease Prevention 10. <i>A Green Light for Biology - Making the Invisible Visible</i> : Molecular Biology, Aquaculture, Jellyfish Protein 11. <i>Tissue Engineering - Building Body Parts</i> : Tissue Engineering, Organ Replacement 12. <i>Deadly Patterns - Toxicogenomics</i> : Toxic Chemical, Database of Toxins 13. <i>Xenografts - Alternative Transplants</i> : Transplants, Animal Virus, Anatomy, Medical Use
<b>Botany</b>	14. <i>Sweet Genes - A Very Sweet Protein</i> : New Sweetener, Biotechnology, Genetics 15. <i>Salt of the Earth - Engineering Salt-Tolerant Plants</i> : Salt-Tolerant Plants, Food Supply 16. <i>Cloning Around - Champion Trees</i> : Trees, Preservation of Species, Genetics
<b>Life Sciences Careers</b>	17. <i>Heal Thyself - Research Careers</i> : Cancer Research, Health, Research, Cancer 18. <i>A New Frontier - Systems Biology</i> : Systems Biology, OMICS Science 19. <i>Beyond the Classroom - Connecting Students to Real World Scientific Research</i> : Student Research
<b>DNA</b>	20. <i>What If? A World Without Code - DNA</i> : Significance, Double Helix Structure 21. <i>The Secret of Life - Discovery of DNA Structure</i> : Structure, Crystallography 22. <i>Sugar Rays - Evolutionary Plant Theories</i> : Photosynthesis, Fossils, Bacteria
<b>Evolution</b>	23. <i>Send in the Marine - Help from the Oceans</i> : Shared Evolution, Aquaculture, Inner Ear 24. <i>From Slime to Sublime - Evolutionary Paths</i> : Similar Paths, Natural Selection 25. <i>Night of the Twisted Helix - Mutations &amp; Natural Selection</i> : Survival of the Fittest, DNA Changes, DNA Analysis
<b>Forensic Science</b>	26. <i>A Link for the Missing - DNA "Fingerprinting"</i> : Identifying Children, Genetic testing/DNA Profiling 27. <i>Justice DNA - Freeing the Innocent</i> : DNA Profiling, DNA Evidence 28. <i>Naming the Dead - Forensics Identification</i> : DNA Analysis, DNA Identification
<b>Genetics/ Heredity</b>	29. <i>All in the Family - Genetics &amp; Family Health History</i> : Genetic Screening, Genetic Testing/Counseling 30. <i>Spry Worms - Aging Genes</i> : Aging, Telomeres, Immortal Genes 31. <i>On Aggression - What Makes Us Fight?</i> : Aggression, Scientific Method, Neurotransmitter 32. <i>On Down - Downs Syndrome</i> : Down Syndrome, Stem Cell Research 33. <i>Facts of Life - Gender Determination</i> : Gender, Behavior, DNA 34. <i>The Chosen Child - Screening Genetic Content</i> : Genetic Screening, Designer Babies 35. <i>To Hear - Genetic Deafness</i> : Hearing, Genetic Counseling 36. <i>Perfect Pitch - The Musical Gene</i> : Music, Heredity 37. <i>Rick-Taking Genes - Genes, Environment, or Both?</i> : Risk-taking, Depression 38. <i>Rover Redefined - Pet Genetics</i> : Pet Genetics, Genome Mapping, Pedigrees 39. <i>Testing Zygosity - Are Twins Identical or Not?</i> : Twins, Genetic Testing 40. <i>Avoiding Bottlenecks - Atlantic Sturgeon</i>
<b>Human Health</b>	41. <i>The Next Supermodel - Zebrafish</i> 42. <i>Bar Flies - Alcoholism</i> : Alcoholism, Scientific Method, Insects 43. <i>Are there Voices in the Genes - Schizophrenia</i> : Schizophrenia, Genetic v's Environmental 44. <i>A Gene Called ACE - Blood Pressure</i> : Blood Pressure, Genetic Predisposition 45. <i>Cancer - Compiling the Catalog</i> : Cancer, Tissue Bank, Genetics 46. <i>Case of the Missing Gene - Breast Cancer</i> : Breast Cancer, Genetic Testing 47. <i>In the Blood - Leukemia</i> : Leukemia, Stem Cell Research 48. <i>The Diabetes Cure - Creating Hope</i> : Diabetes, Drug Discovery 49. <i>Fighting Fat - New Ways to Win</i> : Obesity, "Thin" Gene 50. <i>Skin Deep? Race and Disease</i> : Race and Disease, Genetic Disease Distribution 51. <i>Sickle Cell Anemia - Hope from Gene Therapy</i> : Sickle Cell Anemia, Donor Matching 52. <i>Rhythm and Snooze - Circadian Genes</i> : Sleep Patterns, Internal Clocks 53. <i>Quick Fix - Smoking in the Genes</i> : Smoking, Addiction
<b>Insects</b>	54. <i>Six-legged Spies - Bugs, Bombs, &amp; Bioaccumulation</i> : Bioaccumulation, Bioterrorism 55. <i>Case of the Bad Hives - Genetically Engineered Honeybees</i> : Honeybees, Parasite Control/Pollination