

Category 1 Playlist

Prokaryote vs. Eukaryote

- Prokaryote and Eukaryote Tutorial (open in Internet Explorer)
 - http://www.pisgahscience.com/holmescc/module4/pro_eukar.swf

Cellular Processes

- Cell transport animation
 - http://highered.mheducation.com/sites/0072495855/student_view0/chapter2/animation_how_diffusion_works.html
- Osmosis Tutorial
 - <http://www.texasgateway.org/resource/cell-homeostasis-osmosis>

Viruses

- Virus Disease Tutorial
 - <http://www.texasgateway.org/resource/virus-disease>
- Virus Reproduction
 - <http://www.texasgateway.org/resource/virus-reproduction>
- Virus Structure
 - <http://www.texasgateway.org/resource/virus-structure>

Cell Cycle and DNA Replication

- Cell Cycle and Cancer videos and interactives
 - <http://www.texasgateway.org/resource/disruptions-cell-cycle-cancer>
- Video and quiz on Cell cycle
 - http://http://highered.mheducation.com/sites/0072943696/student_view0/chapter3/animation_how_the_cell_cycle_works.html
- Cell Cycle game
 - <https://www.brainpop.com/games/controlofthecellcycle/>
- Cell Cycle game
 - <http://www.rigb.org/education/games/human-body/the-cell-cycle>
- Cancer Timeline Activity
 - <https://www.centreofthecell.org/learn-play/games/what-is-cancer/>

Category 2 Playlist

DNA

- DNA
 - <http://learn.genetics.utah.edu/content/molecules/>

Protein Synthesis

- Protein Synthesis tutorial
 - http://sepuplhs.org/high/sgi/teachers/genetics_act16_sim.html
- Protein Synthesis Videos and Practice Activities
 - <http://www.texasgateway.org/resource/mechanisms-genetics-protein-synthesis>
 - <http://www.texasgateway.org/resource/protein-synthesis>

Mutations

- Mutation Practice
 - http://www.mhhe.com/biosci/genbio/virtual_labs/BL_26/BL_26.html
- Mutation Videos and Practice Activities
 - <http://www.texasgateway.org/resource/mechanisms-genetics-dna-changes>
 - <http://www.texasgateway.org/resource/genetic-mutations>

Gene Expression

Meiosis

Genetics

- Genetics Tutorial
 - <https://animoto.com/play/mlzJzZdGdRfkVAYdnXI71Q>

Category 3 Playlist

Natural Selection and Mechanisms of Evolution

- Genetic Drift and Gene Flow tutorial
 - <http://www.texasgateway.org/resource/mechanisms-evolution-beyond-natural-selection>

Evidence for Evolution

- Evidence for Evolution
 - <http://www.texasgateway.org/resource/evidence-evolution>

Classification

- Taxonomy Tutorial
 - <http://www.texasgateway.org/resource/taxonomy-standards>
- 6 Kingdom tutorial
 - <http://www.texasgateway.org/resource/taxonomy-major-groups>

Category 4 Playlist

Biomolecules

- Biomolecule Racing Game
 - http://reviewgamezone.com/games3/taxi.php?test_id=18458&title=STAAR%20Bio%20Biomolecules%20Carbs%20Lipids

Enzymes

- Enzyme Tutorial
 - <http://www.texasgateway.org/resource/role-enzymes>
- Enzyme Tutorial 2
 - <http://www.texasgateway.org/resource/enzymes>

Photosynthesis and Cell Respiration

- Energy Conversion – Fermentation
 - <http://www.texasgateway.org/resource/cell-processes-fermentation>
- Energy Conversion – Respiration
 - <http://www.texasgateway.org/resource/cell-processes-respiration>
- Energy Conversion – Photosynthesis
 - <http://www.texasgateway.org/resource/cell-processes-photosynthesis>
- Photosynthesis and Cell Respiration tutorial
 - <http://www.texasgateway.org/resource/energy-and-matter-cells>

Plants

Animal Systems

Category 5 Playlist

Succession

Cycles

Energy Flow

Symbiosis

GAMES

- Spin the Wheel EOC Review:
 - <http://www.dynanotes.com/games-HTML/BIOLOGY-SpintheWheel/BIOLOGY-SpintheWheel.html>
- Cell Structure & Function:
 - http://www.dynanotes.com/games/BIO_CellStructureFunctionSnLa.swf
- Mechanisms of Genetics:
 - http://www.dynanotes.com/games/BIO_MechanismsGeneticsSIMa.swf
- Evolution & Classification:
 - http://www.dynanotes.com/games/BIO_BiologicalEvolutionClassificationBAW.swf
- Biological Processes & Systems:
 - http://www.dynanotes.com/games/BIO_BiologicalProcessesSystemsHM.swf
- Ecology-Interdependence within Environmental Systems:
 - http://www.dynanotes.com/games/BIO_InterdepEnvSystemsMDQ.swf