

Complete, No-Prep, Keystone Exam Prep Curriculum Bundle

Keystone Exam Prep Bundle

Biology

PA

- ✓ Complete Keystone Biology Curriculum
- ✓ Variety of Lesson and Activity Types
- ✓ Organized by Topic & Standard
- ✓ Digital + Printable Formats

SCROLL
to take a look inside!



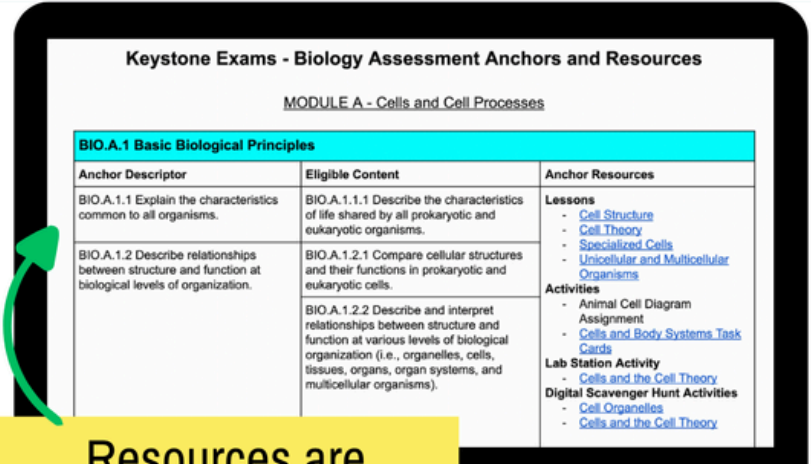
MY KEYSTONE BUNDLE SOLVES...

- ★ Planning fatigue
- ★ Student engagement slumps
- ★ Differentiation challenges
- ★ The large scope and sequence of Keystone Biology Exam

Resources Included

- ✓ **Complete Keystone Biology Curriculum** - Covers all modules and standards with over 175 ready-to-use resources aligned to PA Assessment Anchors.
- ✓ **Variety of Lesson Types** - Includes 5E lessons, labs, digital scavenger hunts, comprehension readings, and interactive notebook pages.
- ✓ **Organized by Topic & Standard** - Easily navigate topics from Cell Biology to the end of the course, perfect for streamlined exam preparation.
- ✓ **Digital + Printable Formats** - Ideal for in-classroom, hybrid, or remote learning environments with flexible access.

KEYSTONE BIOLOGY EXAM PREP BUNDLE



MODULE A - Cells and Cell Processes		
BIO.A.1 Basic Biological Principles		
Anchor Descriptor	Eligible Content	Anchor Resources
BIO.A.1.1 Explain the characteristics of life shared by all prokaryotic and eukaryotic organisms.	BIO.A.1.1.1 Describe the characteristics of life shared by all prokaryotic and eukaryotic organisms.	Lessons - Cell Structure - Cell Theory - Specialized Cells - Unicellular and Multicellular Organisms Activities - Animal Cell Diagram Assignment - Cells and Body Systems Task Cards Lab Station Activity - Cells and the Cell Theory Digital Scavenger Hunt Activities - Cell Organelles - Cells and the Cell Theory
BIO.A.1.2 Describe relationships between structure and function at biological levels of organization.	BIO.A.1.2.1 Compare cellular structures and their functions in prokaryotic and eukaryotic cells. BIO.A.1.2.2 Describe and interpret relationships between structure and function at various levels of biological organization (i.e., organelles, cells, tissues, organs, organ systems, and multicellular organisms).	

Resources are
organized by Modules
and Anchors

Print & Digital

Save You Hours of Prep

MODULE A - CELLS AND CELL PROCESSES

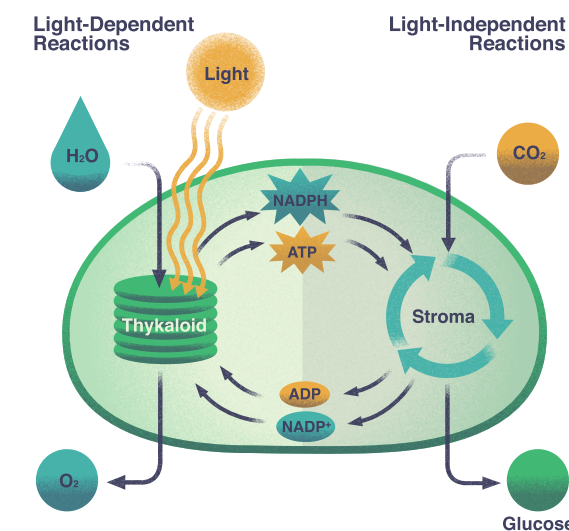
✓ BIO.A.1 Basic Biological Principles



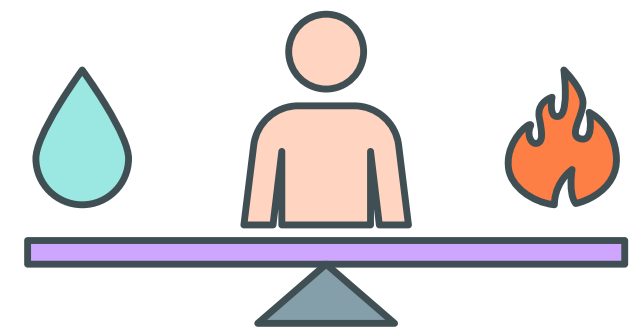
✓ BIO.A.2 The Chemical Basis for Life



✓ BIO.A.3 Bioenergetics



✓ BIO.A.4 Homeostasis and Transport



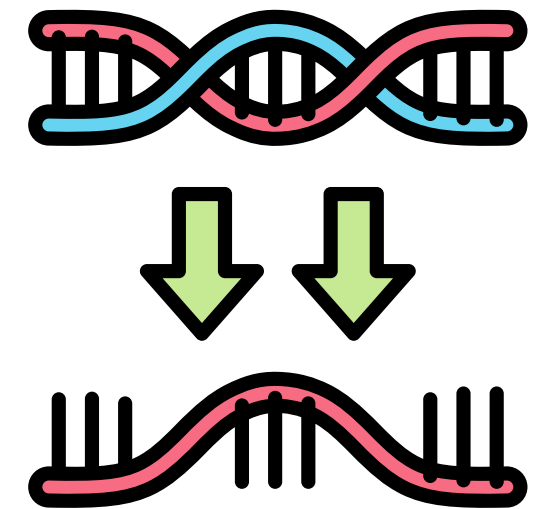
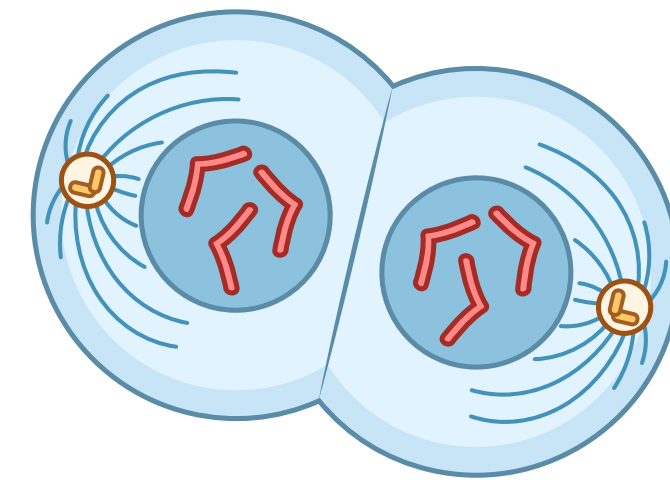
MODULE B - CONTINUITY AND UNITY OF LIFE

✓ BIO.B.1 Cell Growth and Reproduction

✓ BIO.B.2 Genetics

✓ BIO.B.3 Theory of Evolution

✓ BIO.B.4 Ecology





Complete Curriculum that includes all resources required to prep for the Keystone Biology Exam

Your Curriculum



Resources are organized by Modules and Anchors



Keystone Exams - Biology Assessment Anchors		
MODULE A - Cells and Cell Processes		
BIO.A.1 Basic Biological Principles		
Anchor Descriptor	Eligible Content	Anchor Resources
BIO.A.1.1 Explain the characteristics common to all organisms.	BIO.A.1.1.1 Describe the characteristics of life shared by all prokaryotic and eukaryotic organisms.	Lessons - Mitosis - Meiosis - Importance of Cell Division - Cancer Science Comprehension Readings - The Dangers of Smoking - Cancer Lab Station Activities - Cancer version 1 - Cancer version 2 - Mitosis - Meiosis Digital Scavenger Hunt Activities - Cancer - Mitosis - Meiosis
BIO.A.1.2 Describe relationships between structure and function at biological levels of organization.	BIO.A.1.2.1 Compare cellular structures and their functions in prokaryotic and eukaryotic cells.	
	BIO.A.1.2.2 Describe and interpret relationships between structure and function at various levels of biological organization (i.e., organelles, cells, tissues, organs, organ systems, and multicellular organisms).	

MODULE B - Continuity and Unity of Life		
BIO.B.1 Cell Growth and Reproduction		
Anchor Descriptor	Eligible Content	Anchor Resources
BIO.B.1.1 Describe the three stages of the cell cycle: interphase, nuclear division, cytokinesis.	BIO.B.1.1.1 Describe the events that occur during the cell cycle: interphase, nuclear division (i.e., mitosis or meiosis), cytokinesis. BIO.B.1.1.2 Compare the processes and outcomes of mitotic and meiotic nuclear divisions.	Lessons - Mitosis - Meiosis - Importance of Cell Division - Cancer Science Comprehension Readings - The Dangers of Smoking - Cancer Lab Station Activities - Cancer version 1 - Cancer version 2 - Mitosis - Meiosis Digital Scavenger Hunt Activities - Cancer - Mitosis - Meiosis
BIO.B.1.2 Explain how genetic information is inherited.	BIO.B.1.2.1 Describe how the process of DNA replication results in the transmission and/or conservation of genetic information. BIO.B.1.2.2 Explain the functional relationships between DNA, genes, alleles, and chromosomes and their roles in inheritance.	



Teacher and Student Versions of each Lesson and Videos Embedded into your Presentations



Many Different Activity Types



Photosynthesis

Photosynthesis

- **Process whereby plants convert CO₂, water, and the energy from the Sun into sugar**
- Occurs in the leaves of plants in organelles called chloroplasts

carbon dioxide + water $\xrightarrow{\text{light energy}}$ sugar

Photosynthesis

- Occurs in the leaves of plants in organelles called chloroplasts

carbon dioxide + water $\xrightarrow{\text{light energy}}$ sugar + oxygen



Teacher and Student versions of each slide to keep your students engaged

Engaging Activities

- ✓ Lab Station Activities
- ✓ Digital Scavenger Hunts
- ✓ Projects and Bell Ringers
- ✓ Reading Comprehensions
- ✓ Task Cards and Review
- ✓ Labs and Worksheets



Module Teaching Outline

Module Teaching Outline so you'll know what to teach and when.

Keystone Exams - Biology Assessment Anchors and Resources

MODULE A - Cells and Cell Processes

BIO.A.1 Basic Biological Principles

Anchor Descriptor	Eligible Content	Anchor Resources
BIO.A.1.1 Explain the characteristics common to all organisms.	BIO.A.1.1.1 Describe the characteristics of life shared by all prokaryotic and eukaryotic organisms.	Lessons - Cell Structure - Cell Theory - Specialized Cells - Unicellular and Multicellular Organisms Activities - Animal Cell Diagram
BIO.A.1.2 Describe relationships between structure and function at biological levels of organization.	BIO.A.1.2.1 Compare cellular structures and their functions in prokaryotic and eukaryotic cells.	

MODULE B - Continuity and Unity of Life

BIO.B.1 Cell Growth and Reproduction

Anchor Descriptor	Eligible Content	Anchor Resources
BIO.B.1.1 Describe the three stages of the cell cycle: interphase, nuclear division, cytokinesis.	BIO.B.1.1.1 Describe the events that occur during the cell cycle: interphase, nuclear division (i.e., mitosis or meiosis), cytokinesis. BIO.B.1.1.2 Compare the processes and outcomes of mitotic and meiotic nuclear divisions.	Lessons - Mitosis - Meiosis - Importance of Cell Division - Cancer Science Comprehension Readings - The Dangers of Smoking - Cancer Lab Station Activities - Cancer version 1
BIO.B.1.2 Explain how genetic information is inherited.	BIO.B.1.2.1 Describe how the process of DNA replication results in the	

BIO.B.2 Genetics

BIO.B.2.1 Compare Mendelian and non-Mendelian patterns of inheritance.	BIO.B.2.1.1 Describe and/or predict observed patterns of inheritance (i.e., dominant, recessive, co-dominance, incomplete dominance, sex-linked, polygenic, and multiple alleles). BIO.B.2.1.2 Describe processes that can alter composition or number of chromosomes (i.e., crossing-over, nondisjunction, duplication, translocation, deletion, insertion, and inversion).	Lessons - Genetic Disorders - DNA Genes Chromosomes and Alleles - DNA Manipulation and GMOs - DNA Organization and Aging - DNA Replication and Repair - Mutations - PCR and Gel Electrophoresis - Transcription - Translation Science Comprehension Readings - Down Syndrome - Genetically Modified Organisms - Genetics and Gene Therapy - Stem Cell Therapy - Gregor Mendel Lab Station Activities - Genetic Manipulation and GMO - DNA, Genes, Chromosomes, and Alleles - Mutations - Transcription and Translation Protein Synthesis Digital Scavenger Hunt Activity - DNA, Genes, Chromosomes, and Alleles - Mutations
BIO.B.2.2 Explain the process of protein synthesis (i.e., transcription, translation, and protein modification).	BIO.B.2.2.1 Describe how the processes of transcription and translation are similar in all organisms. BIO.B.2.2.2 Describe the role of ribosomes, endoplasmic reticulum, Golgi apparatus, and the nucleus in the production of specific types of proteins.	
	BIO.B.2.3.1 Describe how genetic mutations alter the DNA sequence and may or may not affect phenotype (e.g., silent, nonsense, frame-shift).	
	BIO.B.2.4.1 Explain how genetic engineering has impacted the fields of medicine, forensics, and agriculture (e.g., selective breeding, gene splicing, cloning, genetically modified organisms, gene therapy).	

BIO.B.3 Theory of Evolution

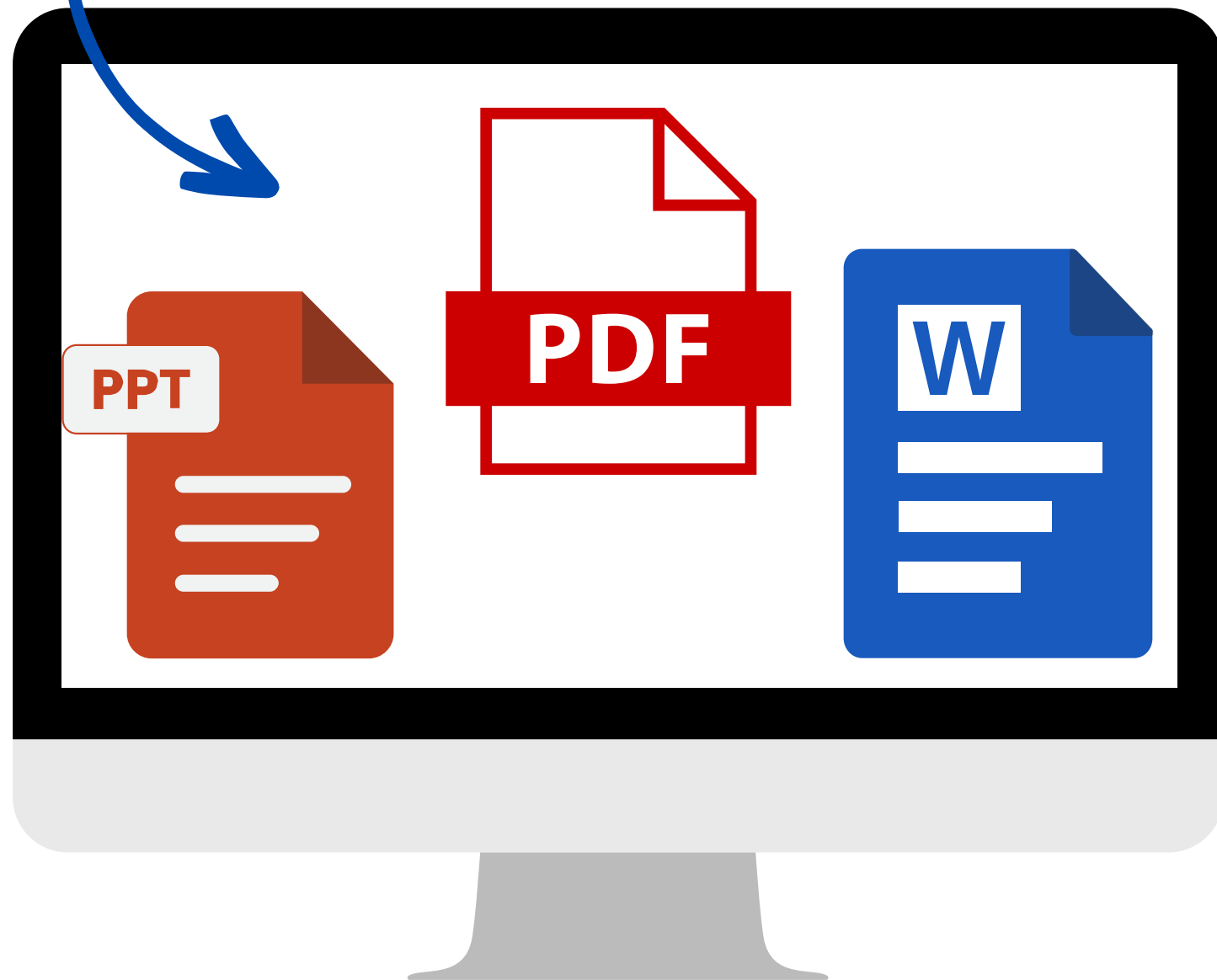
BIO.B.3.1 Explain the mechanisms of evolution.	BIO.B.3.1.1 Explain how natural selection can impact allele frequencies of a population. 3.1.B.C1	Lessons - Introduction to Evolution - Evolutionary Mechanisms - Physical and Behavioral Adaptations - Speciation - The Classification of Living Things Science Comprehension Reading - Physical Adaptations Lab Station Activities - Adaptations - Evolution - The Classification of Living Things Digital Scavenger Hunt Activity - Introduction to Evolution - The Classification of Living Things
BIO.B.3.2 Identify and describe how organisms obtain and transform energy for their life processes.	BIO.B.3.1.2 Describe the factors that can contribute to the development of new species (e.g., isolating mechanisms, genetic drift, founder effect, migration). BIO.B.3.1.3 Explain how genetic mutations may result in genotypic and phenotypic variations within a population.	
BIO.B.3.2 Analyze the sources of evidence for biological evolution.	BIO.B.3.2.1 Interpret evidence supporting the theory of evolution (i.e., fossil, anatomical, physiological, embryological, biochemical, and universal genetic code).	
BIO.B.3.3 Apply scientific thinking, processes, tools, and technologies in the study of the theory of evolution.	BIO.B.3.3.1 Distinguish between the scientific terms: hypothesis, inference, law, theory, principle, fact, and observation.	

BIO.B.4 Ecology

BIO.B.4.1 Describe ecological levels of organization in the biosphere.	BIO.B.4.1.1 Describe the levels of ecological organization (i.e., organism, population, community, ecosystem, biome, and biosphere). BIO.B.4.1.2 Describe characteristic biotic and abiotic components of aquatic and terrestrial ecosystems.	Lessons - Biodiversity - Biomass and Fossil Fuels - Biotic and Abiotic Influences - Cycling of Matter - Ecological Succession - Ecosystems - Energy Flow in Ecosystems - Invasive Species - Spheres of the Earth - Watersheds Science Comprehension Readings - Phases of Water - Watersheds - Invasive Species Lab Station Activities - Energy Flow in Ecosystems - Interactions Within Ecosystems - Biodiversity and Invasive Species - Watersheds Digital Scavenger Hunt Activity - Biodiversity - Invasive Species - Energy Flow in Ecosystems - Interactions Within Ecosystems Activities - Ecology Bell Ringer Activity - Ecology and Ecosystems - Digital Interactive Notebook Boom Decks - Biodiversity and Invasive Species - Cycling of Matter
BIO.B.4.2 Describe interactions and relationships in an ecosystem.	BIO.B.4.2.1 Describe how energy flows through an ecosystem (e.g., food chains, food webs, energy pyramids). BIO.B.4.2.2 Describe biotic interactions in an ecosystem (e.g., competition, predation, symbiosis).	
	BIO.B.4.2.3 Describe how matter recycles through an ecosystem (i.e., water cycle, carbon cycle, oxygen cycle, and nitrogen cycle).	
	BIO.B.4.2.4 Describe how ecosystems change in response to natural and human disturbances (e.g., climate changes, introduction of nonnative species, pollution, fires).	
	BIO.B.4.2.5 Describe the effects of limiting factors on population dynamics and potential species extinction.	

Keystone Biology Bundle

Office, Google,
and PDF Versions

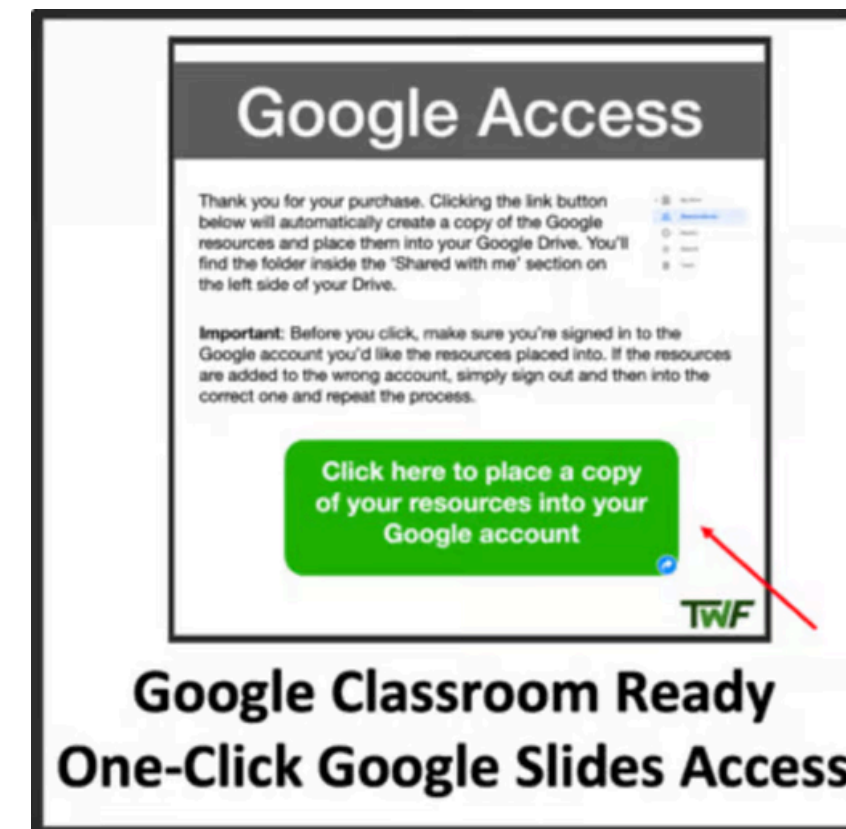


Interactive and
engaging



Station 7

Learn from the expert – Using a classroom computer or your own device, watch the following video clip and answer the associated questions. You may stop, rewind and restart as often as you like during the time frame.



Fully Editable

Upload everything
directly to your
Google Classroom
with ONE click.

Keystone Biology Bundle

✓ **Complete Keystone Biology Curriculum** - Covers all modules and standards with over 175 ready-to-use resources aligned to PA Assessment Anchors.

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