

Processing Skills

This information is not going to be tested directly; you will questions that use this information to test other concepts.

Lab Safety:

Conservation of Resources:

Nature of science, theory, law,
hypothesis...

Data collection: Precision, Accuracy, tools, etc.

History of Science: Darwin, Hooke, Pasteur, Linneaus,
Watson & Crick, Mendel, Franklin, Leewenhooke, Schlieden,
Schwann, etc.

BIOLOGY REVIEW

Name: _____

Period: _____

Teacher: _____

Reporting Category 1

Cell Structure & Function. You will have a total of 11 questions from this concept.

Need to know the function & type of cell

DNA:

Nucleus:

Cell Membrane:

Cell Wall:

Flagella:

Ribosome:

Mitochondria:

Chloroplast:

ER:

Golgi:

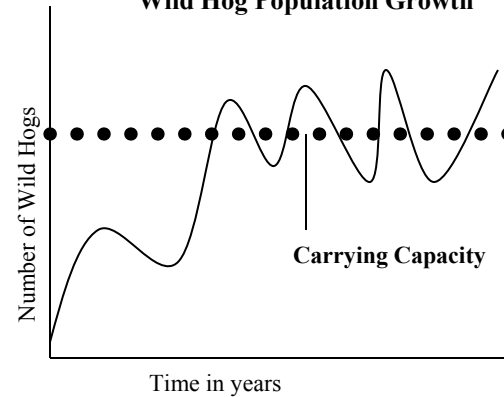
Lysosome:

Reporting Category 5

Interdependence within Environmental Systems. You will have a total of 11 questions from this concept.



Wild Hog Population Growth



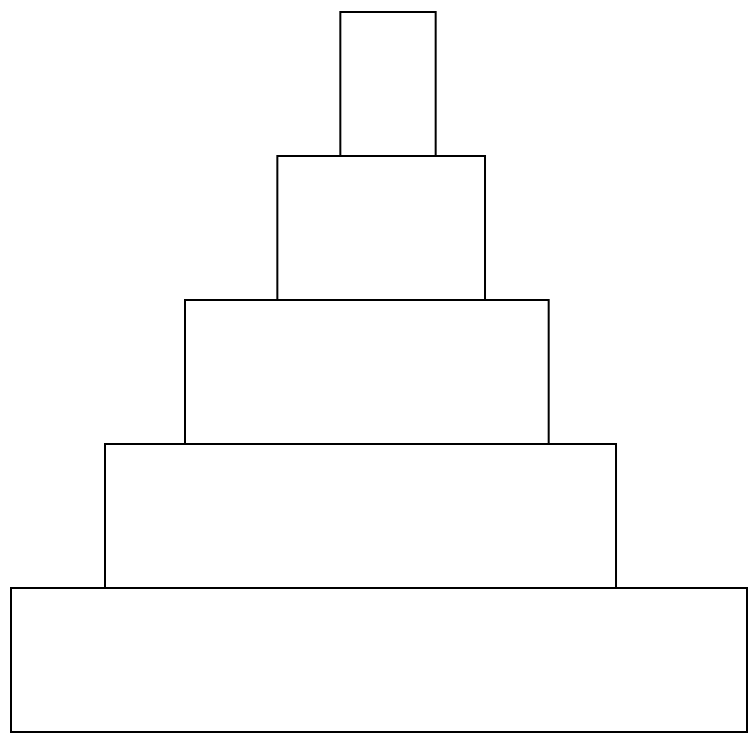
Limiting Factors:

Biotic Potential vs. Carrying Capacity:

Capstone Species:

Reporting Category 5

Interdependence within Environmental Systems. You will have a total of 11 questions from this concept.



Word Bank:

Producer 1% 0.1% 0.01% Primary consumer 10% 100%
 Secondary consumer trophic level Tertiary consumer
 ecological pyramid Quaternary consumer Carnivore Decomposer
 Omnivore Leaf grasshopper eagle robin mushroom

Reporting Category 1

Cell Structure & Function. You will have a total of 11 questions from this concept.

Passive Transport:

Osmosis:



Diffusion:

Facilitated Diffusion:

Active Transport:

Reporting Category 1

Cell Structure & Function. You will have a total of 11 questions from this concept.

	Mitosis	Meiosis
What is the function? When does this happen?		
How many cells are made?		
Describe the cells (different or identical; haploid or diploid)		

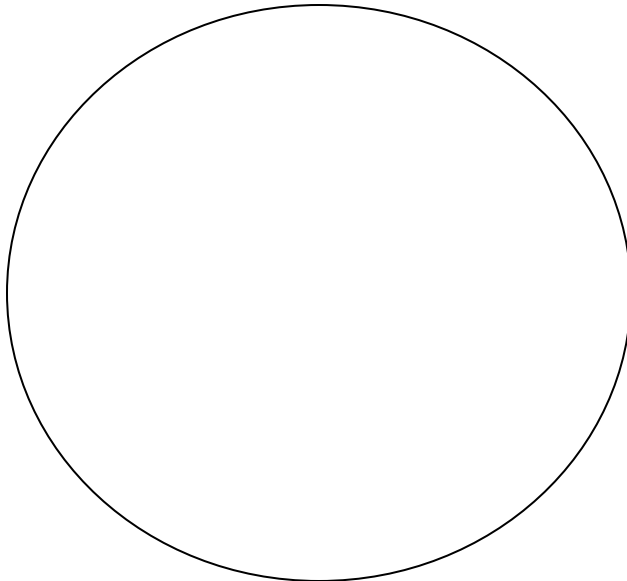
What is the cell cycle?

What happens if there is an error in the cell cycle?

When is DNA replicated?

Label the Cell Cycle

What is cell differentiation?



Reporting Category 5

Interdependence within Environmental Systems. You will have a total of 11 questions from this concept.

How can ecological succession change populations?

Reporting Category 5

Interdependence within Environmental Systems. You will have a total of 11 questions from this concept.

Interpret Relationships

Relationship	Description	Example
Predation		
Parasitism		
Commensalism		
Mutualism		
Competition		

Reporting Category 1

Cell Structure & Function. You will have a total of 11 questions from this concept.

Plant Specialized Cells

Leaves

Stems:

Xylem vs Phloem:

Roots

Flowers:

Reporting Category 1

Cell Structure & Function. You will have a total of 11 questions from this concept.

Viruses

<p>Why NOT ALIVE?</p>	<p>Components:</p>
<p>Sketch it:</p>	<p>Examples:</p>

Reporting Category 4

Biological Processes and Systems. You will have a total of 11 questions from this concept.

Interactions of PLANT Systems

What body systems work together to do the following tasks?
Explain.

<p>Transport</p>	<p>Response</p>
<p>Reproduction</p>	<p>Co-evolution with birds/bugs:</p>

Reporting Category 4

Biological Processes and Systems. You will have a total of 11 questions from this concept.

Interactions of Animal Body Systems

What body systems work together to do the following tasks?
Explain.

Regulation/ Homeostasis	Nutrient Absorption
Reproduction	Defense from injury/illness

Reporting Category 1

Cell Structure & Function. You will have a total of 11 questions from this concept.

	Elements	Monomers	Functions
Nucleic Acid			
Protein			
Lipid			
Carbohydrate			

Reporting Category 4

Biological Processes and Systems. You will have a total of 11 questions from this concept.

PHOTOSYNTHESIS:

Organelle Involved:

Equation:

In simple English this means...

Occurs in what type of cells:

Why it is important:

CELLULAR RESPIRATION

Organelle Involved:

Equation:

In simple English this means...

Occurs in what type of cells:

Why it is important:

Reporting Category 2

Mechanisms of Genetics. You will have a total of 11 questions from this concept.

	DNA	RNA
Draw the nucleotide		
Double or single strand		
Type of Sugar		
Draw the nucleotide		
Where is it found?		

A change in DNA is called a:

Types of Mutations:

Insertion:

Deletion:

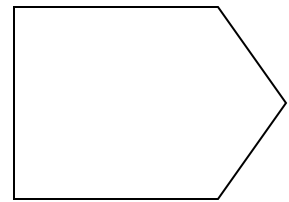
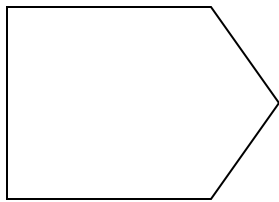
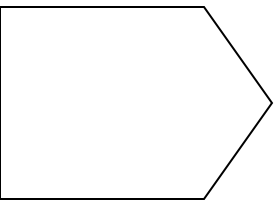
Substitution:

Translocation:

Replication

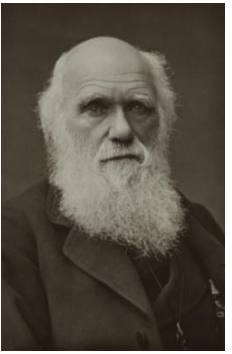
Transcription

Translation



Reporting Category 3

Biological Evolution and Classification. You will have a total of 10 questions from this concept.



Natural selection changes populations NOT individuals!

How does natural selection to adaptations develop diversity in species?

What is an adaptation?

Reporting Category 2

Mechanisms of Genetics. You will have a total of 11 questions from this concept.

Dominant:

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Recessive:

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Homozygous:

ABO Blood Type

Heterozygous:

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Allele:

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Trait:

Genotype:

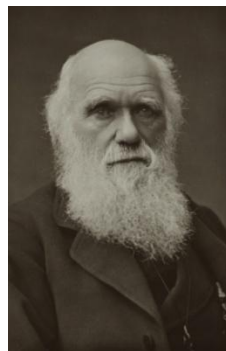
Sex-Linked Trait

Phenotype:

Reporting Category 3

Biological Evolution and Classification. You will have a total of 10 questions from this concept.

What evidence supports the idea of Common Ancestry?



Reporting Category 2

Mechanisms of Genetics. You will have a total of 11 questions from this concept.

DNA fingerprinting:

Karyotype/Chromosomal Analysis:

Genetic engineering/
modifications

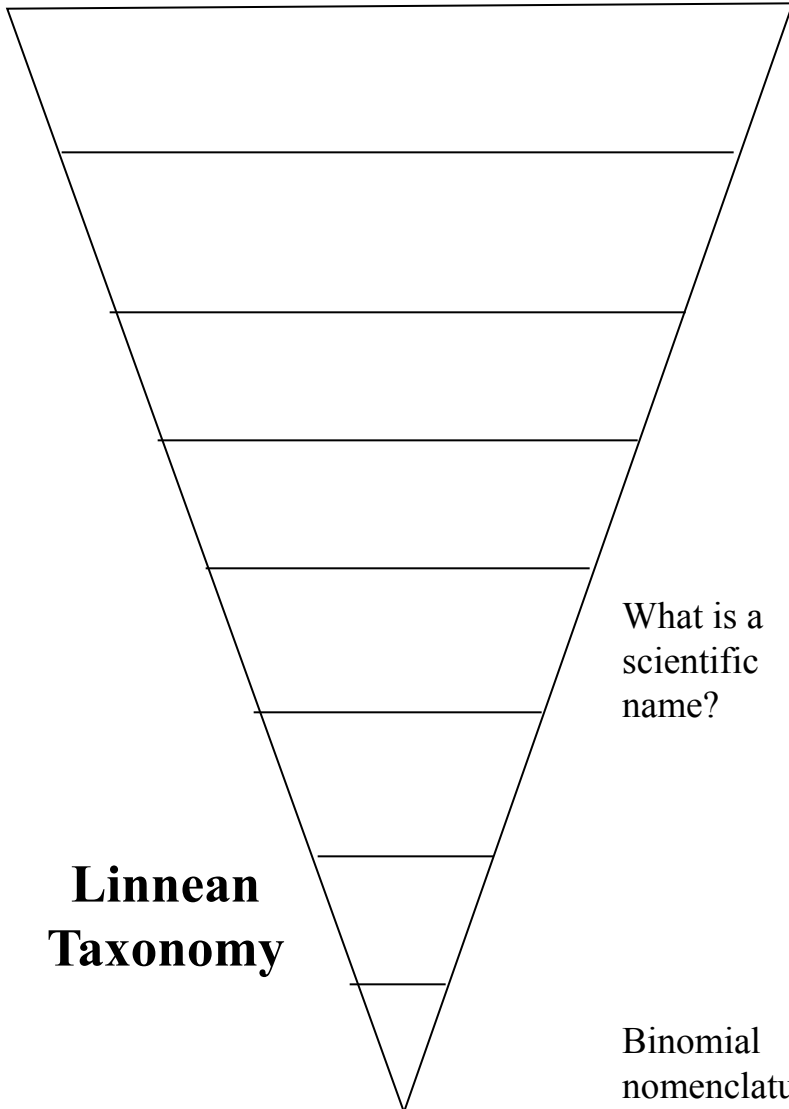
Reporting Category 3

Biological Evolution and Classification. You will have a total of 10 questions from this concept.

Levels of Organization from atom to biosphere:

Reporting Category 3

Biological Evolution and Classification. You will have a total of 10 questions from this concept.



**Linnean
Taxonomy**

What is a scientific name?

Binomial nomenclature?

Classification of Living Things

Domain						
Kingdoms						
Characteristics of the Kingdom						
Examples						