

## 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

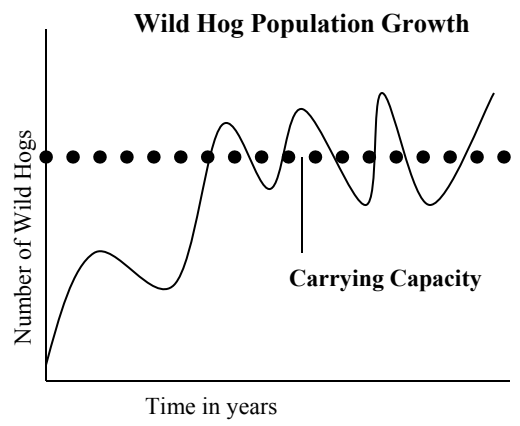
Cell Structure & Function. You will have a total of 11 questions from this concept.

## 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.



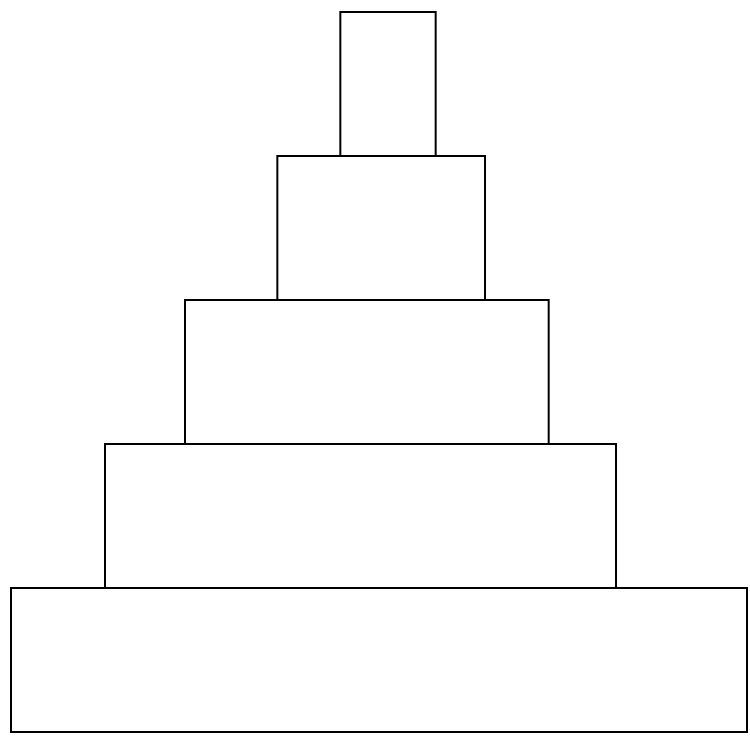
## Limiting Factors:

**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.

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

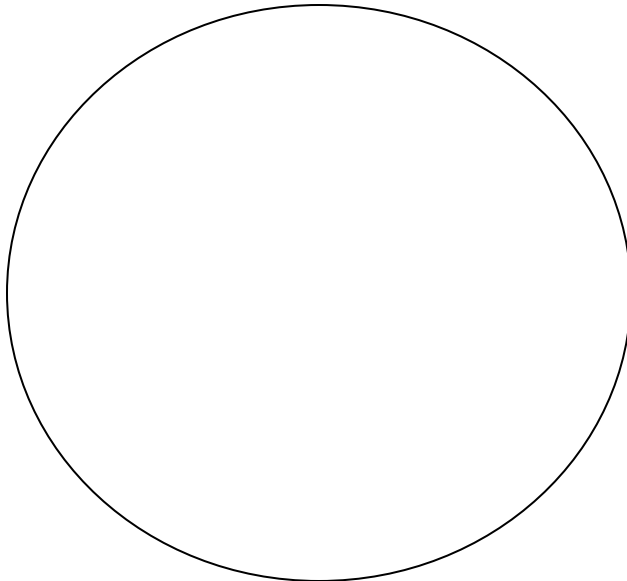
What is the cell cycle?

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
<b>Predation</b>		
<b>Parasitism</b>		
<b>Commensalism</b>		
<b>Mutualism</b>		
<b>Competition</b>		

# 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><b>Why NOT ALIVE?</b></p>	<p><b>Components:</b></p>
<p><b>Sketch it:</b></p>	<p><b>Examples:</b></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><b>Transport</b></p>	<p><b>Response</b></p>
<p><b>Reproduction</b></p>	<p><b>Co-evolution with birds/bugs:</b></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.

<b>Regulation/ Homeostasis</b>	<b>Nutrient Absorption</b>
<b>Reproduction</b>	<b>Defense from injury/illness</b>

# 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:

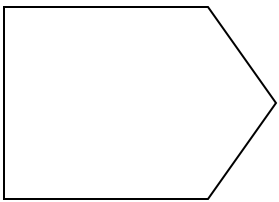
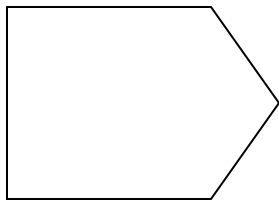
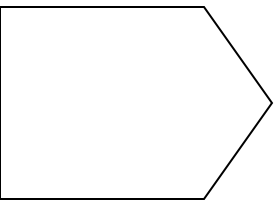
Substitution:

Translocation:

Replication

Transcription

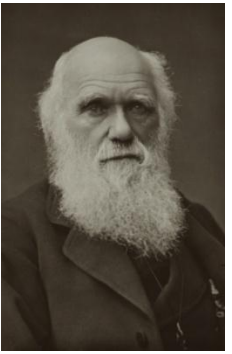
Translation





# 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:

--	--

Recessive:

--	--

Homozygous:

ABO Blood Type

Heterozygous:

--	--

Allele:

--	--

Trait:

Genotype:

Sex-Linked Trait

Phenotype:

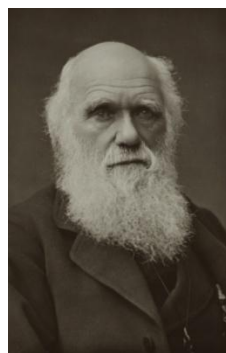
--	--

--	--

## 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

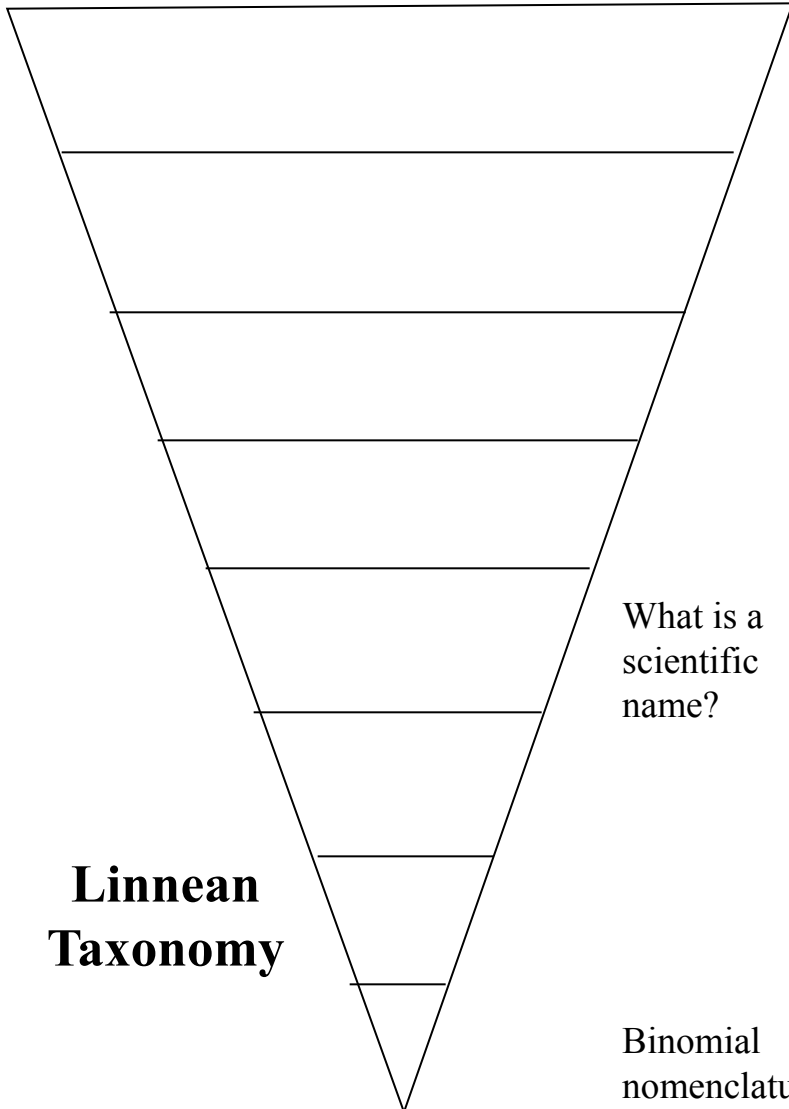
# Reporting Category 3

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.



# Classification of Living Things

Domain						
Kingdoms						
Characteristics of the Kingdom						
Examples						