

* This Cell Digital Notebook example is for preview only. See slide 4 for sample pages of product.

About This Product

It's no secret that I believe traditional science interactive notebooks are one of the best learning tools for students. However, it wasn't until the pandemic of 2020, which forced teachers and students into remote learning, that I realized how naive I was about the potential success students could also have using a digital interactive notebook.

I have watched, listened, and learned from teachers who have found digital interactive notebooks incredibly successful for their students. Knowing this is something teachers need, I have worked hard to design the NGS Magnified Digital Notebook series to help your students learn the content and allow them to interact with their (right-side) notes to complete the (left-side) activities to apply what they've learned. I've also included various activities to meet your students' multiple learning styles - all the best elements of a traditional interactive notebook.

Let's Begin

NGS Magnified Digital Notebooks are the perfect tool for:

- Remote Learning
- Flipped Classroom
- 1 to 1 Learning
- Absent Students

NGS digital notebooks mirror the NGS interactive notebooks. Digital notebooks are an excellent resource for three reasons:

1. Organization - Digital notebooks can help students keep their work in one place and find what they need.
2. Promote independent learning - Digital notebooks empower students to take ownership of their learning, exploring in-depth concepts and revisiting them as needed.
3. Real-time collaboration and feedback - Digital notebooks provide real-time collaboration between students and teachers. Teachers can provide immediate feedback on student work, and students can collaborate with peers.

Student Digital Notebook

The student notebook is on Google Drive and ready for you to share with your students. Here's a quick overview of the features:

Set up like a traditional interactive notebook with input and output sides.

Hyperlinked tabs so student can easily move through chapter for review

Students watch video < 6 min to complete notes.

6 - Cell Structure and Function INB Student

File Edit View Insert Format Slide Arrange Tools Add-ons Help Last edit was made 12 hours ago by Erin...

Background Layout Theme Transition

Directions: Label the parts of the phospholipid bilayer by clicking and dragging the text boxes below.

Phospholipid

inside cell

outside cell

phosphate

carbohydrate chain

fatty acid chains

protein channel

protein

PHOSPHOLIPID BILAYER

THE PLASMA MEMBRANE

Plasma Membrane -

The plasma membrane regulates what enters and leaves the cell and also provides protection and support. This is called _____.

Selective Permeability -

Structure of Plasma Membrane:

- Phospholipid bilayer -
- Phospholipid -

Plasma membranes contain _____ molecules that are embedded in the phospholipid bilayer. _____ molecules are attached to many of the proteins. The organization of all these structures is called the _____ model.

How is a plasma membrane like a window screen?

THE BOUNDARY OF CELLS

PLASMA MEMBRANE

EXHIBIT: PLASMA MEMBRANE

PROKARYOTIC CELL

EUKARYOTIC CELL

CELLULAR TRANSPORT

CLASSROOM LABS

The Plasma Membrane

For further exploration, click button(s) below:

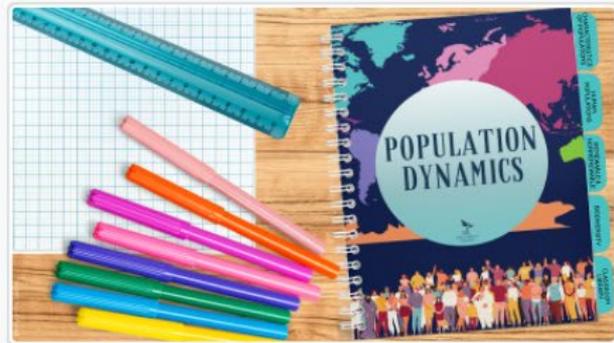
Fluid Mosaic Model

Encouraging independent learners. Directions for output side are here along with what they need to complete the activity.

Notes are chunked into manageable sections with large spaces for textboxes

Some pages have links so students can go deeper into the topic if they need.

Preview of Pages



BACTERIA POPULATION STUDY

Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
1994							
2004							
2014							
2024							

Analysis

- Using the drawing tools, draw a line showing the carrying capacity on the graph.
- What happens to the bacteria as it approaches the carrying capacity of the environment?
- What may have caused the change in the population?

Add image of graph here.

CHARACTERISTICS OF POPULATIONS

Population -

Population density -

If a population has abundant _____ and _____, and is protected from _____ and _____, the population can grow exponentially.

Exponential Growth	Logistic Growth

Carrying Capacity -

Density-dependent limiting factors	Density-independent limiting factors

1

2

3

HUMAN POPULATIONS DATA

Which country is growing the fastest?

Which age group has the highest population percent in the United States?

How many people per sq. km in the United States?

Today's Date:

There is one birth every _____.

There is one death every _____.

There is a net gain of one person every _____.

Research a country and share some statistics.

HUMAN POPULATIONS

Demography -

- Birth rate -
- Death rate -

Birth rate - Death rate = Population Growth Rate (PGR)

Age structure -

When a large population is children, population is experiencing _____ growth. When there are more adults than children, the population is _____. When the amount of people in different age levels is equal, the population is _____.

Human Activities that Affect the Biosphere

- Hunting and Gathering
- Agriculture
- Industrial Growth
- Urban development

ENERGY CONSERVATION

Describe your energy source.

What is the energy source required?

What are the costs associated with the energy source?

What are the advantages of using this energy source?

What are the disadvantages of using this energy source?

Where is the energy source being used currently?

RENEWABLE AND NONRENEWABLE RESOURCES

Renewable Resources -

Nonrenewable Resources -

Sustainable Development -

Resource	How it is used	Renewable	Nonrenewable
Land			
Fossil			
Water			
Air			
Food/Water			

GLOBAL INVADERS

Invasive species	How was species introduced?	Positive impact	Negative impact
Your choice!			

BIODIVERSITY

Biodiversity -

Number of habitats, communities, and living organisms	Number of different species in the biosphere	Genetic diversity of all different forms of life

Threats to Biodiversity

Economic	Biological	Political	Human	Climate

Human Impacts

Human Impacts	Human Impacts	Human Impacts

Human Impacts

Human Impacts	Human Impacts	Human Impacts

Human Impacts

Human Impacts	Human Impacts	Human Impacts



Thank you for sharing NGS Magnified with your students!

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