



* This Force and Motion 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 in the hands of 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 to 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 that teachers need, I have worked hard to design the Nitty Gritty Science Digital Notebook series to help your student learn the content and allow them to interact with their (right-side) notes to complete the (left-side) activities so they can apply what they've learned. I've also included a variety of activities to meet the multiple learning styles of your students - all the best elements of a traditional interactive notebook.

Let's Begin

The NGS Digital Notebooks are the perfect tool for:

- Remote Learning*
- Hybrid Models*
- Flipped Classroom
- 1 to 1 Learning
- Absent Students

*I have designed the NGS digital notebooks to mirror the NGS interactive notebooks for two reasons:

1. Teachers who have students in-person and at home can follow along with the same material.
2. Teams can plan together knowing that the virtual teacher and in-person teacher can use both digital and traditional materials that flow together.

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.

3 - Force and Motion INB - Student

File Edit View Insert Format Slide Arrange Tools Add-ons Help Last edit was seconds ago

Background Layout Theme Transition

Directions: Play each video, then match the distance-time graph that plots the motion. Not all graphs will be used.

GRAPHING MOTION

Motion of an object can be plotted on a distance-time graph.

DESCRIBING MOTION

Motion -

Distance -

Displacement -

Speed -

Average speed (v) =

Type of Speed	Description	Example
Instantaneous		
Average		
Constant		

DESCRIBING MOTION

ACCELERATION

MOTION & FORCE

NEWTON'S LAW

MOTION & FORCE

GRAVITY

CLASSICAL MECHANICS

Describing Motion

For further exploration, click button(s) below:

Motion Graph Practice

Average Speed Formula

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

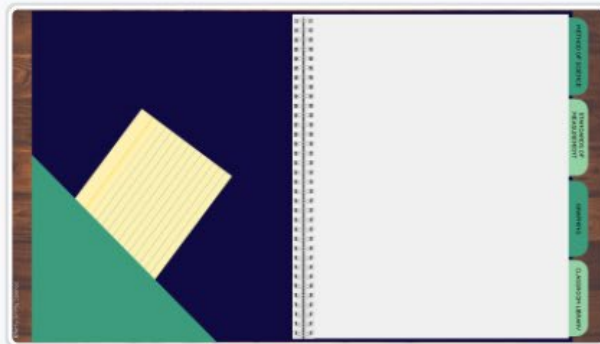
Notes are chunked into manageable sections with large spaces for textboxes

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

Preview of Pages



1



2

SCIENTIFIC METHOD

What do you want to know, why do you want to know it?

Has anyone asked about this topic before?

Make an educated guess or testable prediction

Organize a procedure for testing your hypothesis

Does your data match your hypothesis?

What did you learn, was your hypothesis correct?

Communicate your results with other scientists

Did you accept or reject your hypothesis?
Can improvements be made?

THE METHOD OF SCIENCE

Science -

Scientific Method -

Hypothesis -

Experiment -

Control -

Constant -

Independent variable -

Dependent variable -

Scientific Law vs. Scientific Theory

Example: _____ Example: _____

3

SI BASE UNITS

Quantity Measured	Unit	Symbol
length	gram	g
electric current	kelvin	K
cost of substance	meter	m
intensity of light	ampere	A

STANDARDS OF MEASUREMENT

International System of Units (SI) -

Prefix	Symbol	Multiplying Factor
kilo	k	1,000
deci	d	0.1
centi	c	0.01
milli	m	0.001
micro	μ	0.000 001
nano	n	0.000 000 001

Length -

Volume -

Mass -

Density -

Time -

Average Life Span

Identify the type of graph above -

What is this graph measuring?

Which animal lives the longest? _____ The shortest? _____

What is the average lifespan of a giraffe?

GRAPHING

Graph -

Line Graph -

Bar Graph -

Circle Graph -





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