

# OPEN HOUSE: 6<sup>TH</sup> GRADE PHYSICAL SCIENCE

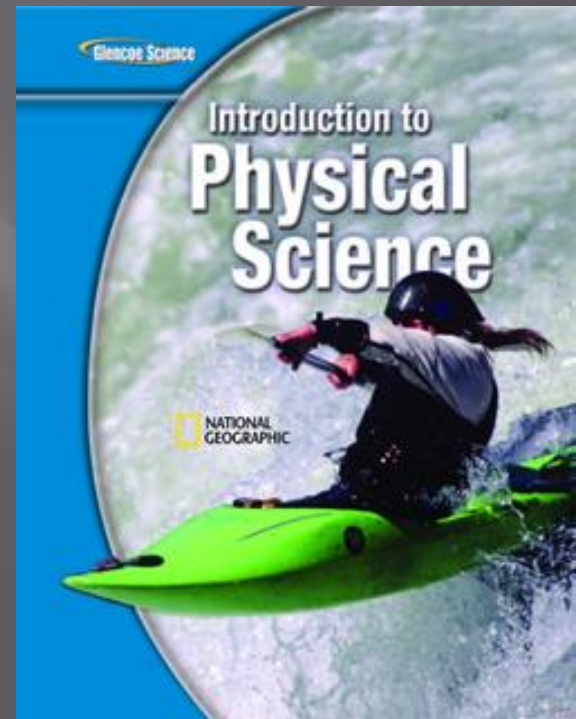
Christian Polard

[cpolard@northallegHENY.org](mailto:cpolard@northallegHENY.org)



# Textbook

- ▣ Textbook: **Glencoe/McGraw-Hill**
- ▣ **Website:** <http://glencoe.mcgraw-hill.com/sites/007877846x/>
- ▣ Online Resources
  - Online Textbook
  - Interactive Tutor
  - Chapter Review Quizzes
  - WebQuest/Labs



# Accessing the Textbook

- ▣ Every student received a copy of the textbook
- ▣ Every chapter of the textbook is available on Blackboard



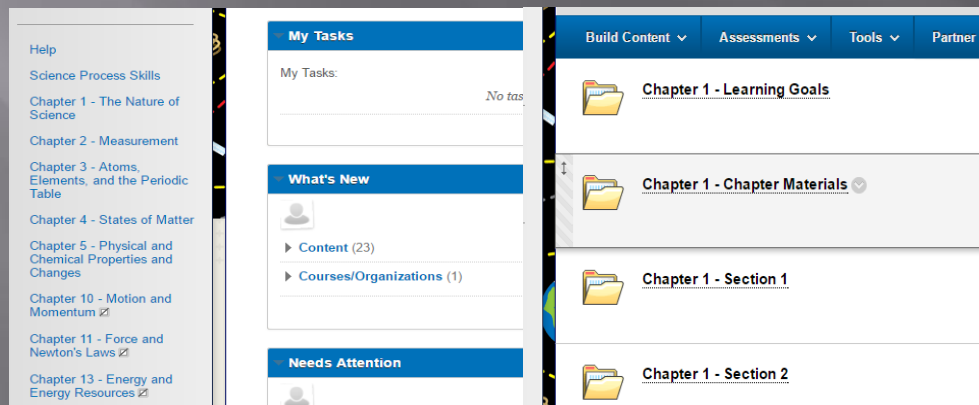
# Blackboard

- ❑ Sixth grade students are encouraged to access Mr. Polard's Blackboard site for access to: the online textbook, vocabulary and notes PowerPoint, an electronic copy of the science packet, and the homework calendar.

**Username: (same as NA computer login username)**

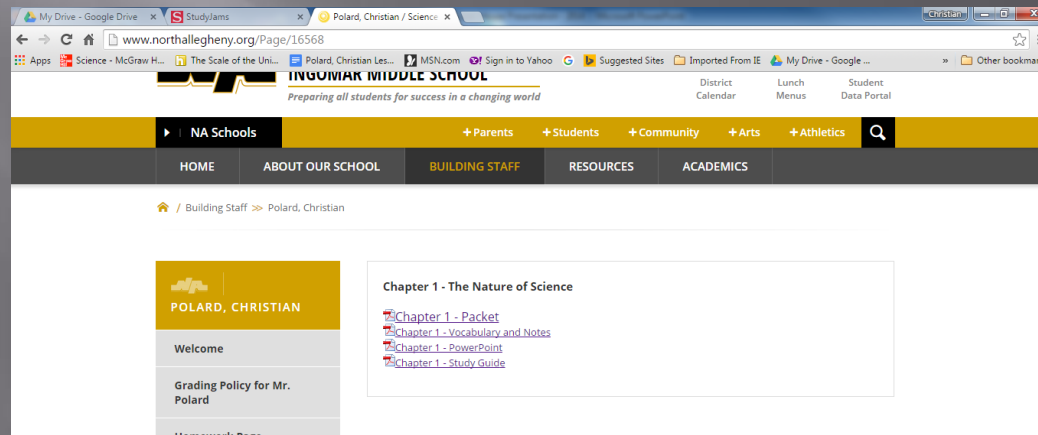
**Password: (same as NA computer password)**

- ❑ Students received a handout about this process. Feel free to grab a copy of the handout tonight.



# Mr. Polard's Website

- ▣ Additional help for students



The screenshot shows a web browser window displaying the website for Mr. Polard at [www.northallegheny.org/Page/16568](http://www.northallegheny.org/Page/16568). The page is for INGVAMAR MIDDLE SCHOOL, with the tagline "Preparing all students for success in a changing world". The navigation menu includes "HOME", "ABOUT OUR SCHOOL", "BUILDING STAFF", "RESOURCES", and "ACADEMICS". The "BUILDING STAFF" section is active, showing a breadcrumb trail: "Building Staff >> Polard, Christian".

On the left side, there is a profile for "POLARD, CHRISTIAN" with a "Welcome" message and links for "Grading Policy for Mr. Polard" and "Homework Page".

The main content area is titled "Chapter 1 - The Nature of Science" and contains the following links:

- [Chapter 1 - Packet](#)
- [Chapter 1 - Vocabulary and Notes](#)
- [Chapter 1 - PowerPoint](#)
- [Chapter 1 - Study Guide](#)


# Tyler Gradebook

https://portal.northallegheny.org/TSL\_Live/Login.aspx?STO=1

Tyler SIS

Polard, Christian / Science - C...

File Edit View Favorites Tools Help

 tyler technologies


Tyler Student Information System

Username

Session Timed Out

Password

**LOGIN**

 [Forgot Password](#)

[Tyler SIS Mobile](#)

# Accessing Student Grades

- ▣ Access using the NA Student Data Portal
- ▣ The following codes will be used when entering grades:
  - 0: The student attempted to complete the assignment but earned zero points.
  - M: The student did not complete the assignment, and he/she may not turn it in for credit.
  - X: The student is exempt from completing the assignment, and it will not affect his/her grade.



# NOW and LATER Classroom Procedures

**THURSDAY, SEPTEMBER 11, 2014**  
**SCIENCE – NOW AND LATER**



▪ **NOW:**

Now Question: Define Hypothesis:

▪ **AND:**

- Learning Goal(s):
1. Demonstrate understanding of sections 1 and 2 of chapter 1 through completion of quiz
  2. Compare and contrast the information gained from experiments
  3. With support develop a hypothesis focusing on sound observation

Learning Activities:

1. Complete quiz over section 1 and 2 of chapter 1
1. Science lab demonstration – Sound observation
2. Complete lab demonstration handout

▪ **LATER:**

Homework: No Homework |

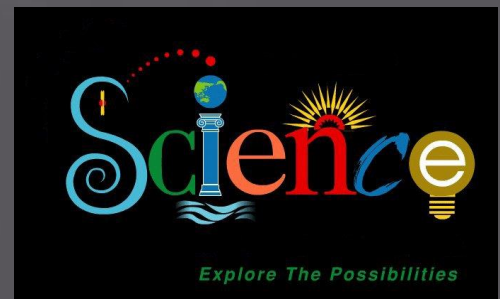


# ASSIGNMENT BOOKS, HOMEWORK BOARD and WEB PAGE

- ▣ Students should write all of their assignments in their assignment book.
- ▣ Please have your students check the front board. Homework is posted daily.
- ▣ Assignments will also be posted on the calendar in Blackboard
- ▣ [www.northallegHENY.org](http://www.northallegHENY.org)

# Science Department Philosophy

- Science is a way of knowing.
- Scientific disciplines share a common method for testing hypothesis in order to gain knowledge.
- 6<sup>th</sup> Grade – Physical Science
- 7<sup>th</sup> Grade – Life Science
- 8<sup>th</sup> Grade – Earth and Space Science
- Curriculum design and delivery is based on these principles:
  1. Research based methods
  2. Continuously evaluated and updated
  3. Emphasis on learning process skills
  4. Focus on learning discipline-specific content



# Science Curriculum Outline

## Chapter 1 THE NATURE OF SCIENCE:

### UNIT 1

- Section 1 What is science?
- Section 2 Science in Action
- Section 3 Models in Science
- Section 4 Evaluation Scientific Explanation
- LAB: What is the right answer?
- LAB: Identifying Parts of an Investigation

## Chapter 2 MEASUREMENT:

### UNIT 1

- Section 1 Description and Measurement
- Section 2 SI Units
- LAB: Scale Drawing
- Section 3 Drawings, Tables and Graphs
- LAB: Pace Yourself

## Chapter 3 ATOMS, ELEMENTS, and the PERIODIC TABLE:

### UNIT 2

- Section 1 Structure of Matter
- Section 2 The Simplest Matter
- LAB: Elements and the Periodic Table
- Section 3 Compounds and Mixtures
- LAB: Mystery Mixture

## Chapter 4 STATES OF MATTER:

### UNIT 2

- Section 1 Matter
- Section 2 Changes of State
- LAB: The Water Cycle
- Section 3 Behavior of Fluids
- LAB: Design Your Own Ship

# Science Curriculum Outline

## Chapter 5 MATTER -PROPERTIES and CHANGES:

### UNIT 2

- Section 1 Physical Properties
- Section 2 Chemical Properties
- Section 3 Physical and Chemical Changes
- LAB: Sunset in a Bag
- LAB: Homemade pH Scale

## Chapter 10 MOTION and MOMENTUM:

### UNIT 3

- Section 1 What is motion?
- Section 2 Acceleration
- Section 3 Momentum
- LAB: Collisions
- LAB: Car Safety Testing
- ROCKETRY - Design, Build, and Launch Rockets

## Chapter 11 FORCES and NEWTON'S LAWS:

### Unit 4

- Section 1 Newton's First Law
- Section 2 Newton's Second Law
- Section 3 Newton's Third Law
- LAB: Balloon Races
- LAB: Modeling Motion in Two Directions

## AGRICULTURE SCIENCE:

### (Agriculture Web Quest)

- Natural resource distribution
- Agriculture and standard of living
- PA specific agricultural topics
- Agricultural systems and human/natural resources
- Agriculture and technology
- Integrated pest management

# THANK YOU FOR ATTENDING AND SHOWING YOUR SUPPORT

Have a great night!

