

# 7th Grade Science Syllabus

**North Middle School**

**Teacher: Shaynee Syler**

**2022-2023**

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**Mission Statement:** For all 7th grade science students to reach 70% or above mastery of the key common core standards for 7th grade science standards in the State of Tennessee.

## **Where to Find Classroom Information and Updates:**

### **Google Classroom:**

1st Period: **cd5tt63**

2nd Period: **3u7exi6**

3rd Period : **krrmej7**

4th Period: **gb5mfln**

6th Period: **fxnirpy**

Gatorade: **fcykc4j**

## **Academic Resources:**

[www.middleschoolchemistry.com](http://www.middleschoolchemistry.com)

[www.chem4kids.com](http://www.chem4kids.com)

<https://phet.colorado.edu/>

Study Island

Nearpod

Google Classrooms

Pearson Workbook

ChromeBook

# Course Overview:

1st Nine Weeks:

Chemistry Unit

Major Projects: (ALL PROJECTS ARE TEST GRADES. IF STUDENT DOES NOT COMPLETE THEY WILL BE REQUIRED TO WRITE A 1 PAGE ESSAY IN THE PLACE OF THE PROJECT.)

1. Atom Model
2. Pumpkin Chunkin
3. Periodic Table SHIRT or TILE

## TOPICS COVERED

### 7.PS1 Matter & Its Interactions

- States of Matter 1 week
- Atomic Model 1 week
- Periodic Table 2 week
- Elements and Compounds 1 week
- Mixtures 1 week
- Chemical/Physical changes 1 week
- Conservation of Mass 2 weeks

2nd 9 Weeks:

Life Science Unit

1. Research Paper on Body Systems
2. Cookie Cell Models (will be done in classroom)

## TOPICS COVERED

### 7.LS1 From Molecules to Organisms

- Organization of Living Things (Body Systems) 2 weeks
- Cell Structure and Function 2 weeks
- Cell Processes (membrane transport) 1 week
- Classification of Cells within Kingdoms 1 week
- Photosynthesis and Cellular Respiration 1 week
- Sexual and Asexual Reproduction 1 week

- Intro to Mitosis 1 week

### 3rd 9 Weeks

#### 7.LS3 Heredity

##### 1. ADAPTATIONS PROJECT (DIGITAL AND HANDS ON)

#### TOPICS COVERED

- Mitosis/Meiosis 1 week
- DNA/Mutations 1 week
- Punnett Squares/Heredity 2 weeks
- Adaptations/Survival 2 weeks
- Vascular vs. Nonvascular 1 week
- Angiosperms and Gymnosperms 1 week
- Tropism 1 week

### 4th 9 Weeks

#### Earth Science Unit

##### 1. Bridges of Franklin County (Construct a Popsicle Stick Bridge)

#### 7.ESS3 Earth and Human Activity

- Cycling of matter 1 week
- Atmospheric layers 1 week
- Human activity and climate data 1 week
- Biomaterials and engineering design 1 week