

## SYLLABUS

### Exploring Technology

### 6th Grade Southwest Middle School

#### INSTRUCTIONAL GOALS

Exploring Technology: In this course, 6th grade students will investigate how products can be improved and invented based on the current need to solve problems. Through engaging activities and hands-on projects of which are broken into three five week sections (Robotics, 3D Printing, and Python coding) students will focus on understanding system design and various manufacturing technologies; and how technology can impact society, the environment, and the economy, as well as utilize engineering design concepts such as computer-aided design and other communication technologies to brainstorm and analyze solutions to technological problems. This is a semester course.

#### **Assignments:**

Students will be expected to turn in assignments when they are due. Assignments that are late will be deducted 10% for every day they are late. Classes are designed for students to complete all work in class.

#### NEEDS AND RESOURCES

#### **Required Background**

To successfully complete this course, you will need to:

- Utilize Engineering Design concepts such as computer aided-design
- Analyze solutions to technological problems
- Understand how technology can impact society

#### **Required Materials**

Students need earbuds, a hand-held pencil sharpener, 1-subject spiral notebook, and pencils.

#### **Common Core Curriculum**

We follow the Common Core Curriculum. Please visit the North Carolina Department of Public Instruction for more information. The link is

<http://www.ncpublicschools.org/acre/standards/common-core/>

## CTE Technology Education Curriculum

Instruction will be taught through guided instruction for hands-on projects and Interactive Read Aloud. A selected text to the whole class, occasionally and selectively pausing for conversation. Students think about, talk about, and respond to the text as a whole group or in pairs before recording and taking notes in their Engineering Design Journal or Electronic Portfolio. Weekly vocabulary is given and projects assigned. There will be quizzes/tests and journal checks for essential questions. Students will have to take time to work on assignments outside the classroom with more independent study

## POLICIES AND PROCEDURES

### **General Rules:**

#### Student Expectations

- 1) Be respectful.
- 2) Enter quietly and get to work immediately. Exit quietly.
- 3) Sharpen your pencil at the beginning of class. It is highly recommended to have and use a hand-held pencil sharpener.
- 4) Raise your hand and be given permission before speaking or leaving your seat.
- 5) Do your best on all assignments - effort matters.
- 6) Be an active participant by listening and speaking at appropriate times.
- 7) Engineering Design Journal is organized and contains Entry for each class period
- 8) Handle chromebook responsibly (follow GCS Acceptable Use Policy) and use for academic purposes only.
- 9) Clear bottled water allowed in the classroom (food not allowed without teacher permission).
- 10) Use the restroom during designated times.
- 11) Cell phones must remain off and put away (Not in use)
- 12) Homework expectations (Once Week) Vocabulary/Research

#### Parent Expectations

- 1) **Please observe and monitor homework.** Please see that they study and review their vocabulary. Complete research for projects and presentations. Complete their homework, review and study. The success of your child depends on you too!
- 2) Go through their Engineering Design Journal to help maintain organization and neatness.
- 3) Email or call if you have questions. My email address is Ahsanders@gaston.k12.nc.us

4) Access your child's grades online using their lunch number and password.

**Grading Policies:**

**Grading Policy**

Students are graded using the Gaston County Schools weighted grading scale and will be graded on:

- |    |   |     |
|----|---|-----|
| 1. | Tests, major projects, papers, and performances | 40% |
| 2. | Quizzes, class work, common assessments         | 30% |
| 3. | Guided Work and group activities                | 20% |
| 4. | Homework  | 10% |

Each student will be encouraged to achieve a minimum of 80% on each **test or in-class assignments**.

I use Gaston County grading scale to determine student grades. The grading scale is as follows:

100-90	A
89-80	B
79-70	C
69-60	D
59- 0	F

**ADDITIONAL INFORMATION**

I look forward to a great year as we incorporate new technology, learning strategies into our classroom.

Please do not hesitate to contact me if you have any questions or concerns. I can be reached:

**CONTACT INFORMATION**

- Mrs. Angela Sanders CTE Technology Education Teacher
- 704-308-4950 (Planning Time: 12:30-2:00) and By Appointments
- SWMS Phone: 704-866-6290
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Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Parent Signature: \_\_\_\_\_ Date: \_\_\_\_\_