

## Villanova Junior High

### Grade 7 Technology Education (Communication Module)

Teacher: Mr. Walsh - Room 111

The **Grade 7 Communications Technology** course is the first of five modules (unit of instruction) to be delivered at the Intermediate level. Its primary strategy will be to engage students in the design, development, management, and evaluation of technological systems as solutions to problems.

**Technology - using knowledge to develop products and systems that satisfy needs, solve problems, and increase our capabilities. It is not to be solely computer based, but to use the computer as a tool to help in the problem solving process.**

**Big Ideas:** The purpose of the big ideas section is to provide students with an introduction to the ideas, terminology and concepts covered in the module. In this section, students will develop knowledge of the following topics:

**Topic 1:** Tools of Communication - Past, Present and Future

**Topic 2:** Communications Tools in Everyday Use

**Topic 3:** Processes of Communication

**Topic 4:** Communications Systems

**Topic 5:** Introduction to Communications Graphics

**Topic 6:** Introduction to Graphic Design

**Topic 7:** Technological Problem Solving

**Topic 8:** Ownership and Copyright

**Basic Skills:** The purpose of the basic skills section is to provide students with an introduction to the basic tools and techniques that will be employed as starting points for *Unit 3 - Design Activity*. Topics include:

**Topic 1:** Communications Graphics - Sketches and Simple Technical Drawings

**Topic 2:** Communications Multimedia - Images, Audio and Video

**Topic 3:** Document Creation

**Topic 4:** Presentation of Ideas

**Design Activity (D.A.):** The purpose of the Design Activity unit is to provide students with experience designing a communications product. Students will develop capability with the design process for developing technical solutions by employing the fundamental processes of communication. Topics include:

- Topic 1:** The Design Team and The Design Portfolio
- Topic 2:** Identification of the Problem Situation (Step 1)
- Topic 3:** Development of the Design Brief (Step 2)
- Topic 4:** Investigation and Research (Step 3)
- Topic 5:** Identification of Possible Solutions (Step 4)
- Topic 6:** Selection of the Best Solution (Step 5)
- Topic 7:** Development of the Solution (Step 6)
- Topic 8:** Evaluation of the Solution (Step 7)
- Topic 9:** Presentation of the Report (Step 8)

**Evaluation** (in-class assignments, portfolio, projects and participation)

**Unit I: Big Ideas 20%**

**Unit II: Basic Skills 20%**

**Unit III: Design Activity (60%)**

- Design Process 6%
- Design Portfolio 24%
- Solution 18%
- Report 12%