

## **Grade 7-Technology Standards and Benchmarks**

### **1. Knows characteristics and computer hardware and operating systems (NETS 1)**

1. Applies technology skills\*
2. Knows features and uses of current and emerging technology
3. Knows limitations and tradeoffs of various types of hardware, e.g., laptops, ibooks, modems

### **2. Knows characteristics and computer software programs (NETS 2)**

1. Practices responsible use of technology systems and software
2. Discusses how formats differ among software applications and hardware platforms
3. Uses advanced features and utilities of word processors, e.g., clip art, grammar checker, thesaurus, outliner
4. Knows common features and uses of spreadsheet and database
5. Knows common features and uses of desktop publishing
6. Contributes to a group/teacher-made presentation program;
7. Defines the basic elements of a multimedia presentation - knows common features of presentation; Contributes to various group presentations, e.g., web quest presentation; Places text into a simple, static screen
8. Uses grade-appropriate software

### **3. Understands relationships among science, technology, society, and the individual (NETS 3, 4, 5)**

1. Knows that technology and science have a reciprocal relationship, technology drives science and vice versa
2. Works cooperatively and collaboratively with peers, family members, and others when using technology
3. Effectively uses media resources to gather information\*
4. Demonstrates positive social and ethical behaviors when using technology, e.g., illegally copying software, software piracy, copyright laws\*
5. Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use
6. Discusses common uses of technology in daily life and the advantages and disadvantages those uses provide
7. Understands the history of computers and related careers

### **4. Understands the nature of technological design (NETS 3)**

1. Knows that the design process is a slow, methodical process of test and refinement
2. Knows that invention is the process of creating a new system or object out of an idea while innovation is the process of modifying an existing system to improve it
3. Implements and evaluates product and design and makes modifications

### **5. Understands the nature and operation of systems (NETS 1)**

1. Gathers information and communicate with others using telecommunications, with support from teachers, family members, or student partners.

### **6. Understands the nature and uses of different forms of technology (NETS 3, 6)**

2. Uses technology productivity tools to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum. (NETS 3)
3. Uses telecommunications efficiently and effectively to access remote information, e.g. internet and other online resources (NETS 6)