

Course: Technology Education

GRADE: 7

Revised 9/14/07

PLANNED COURSE CURRICULUM GUIDE

I. COURSE DESCRIPTION AND INTENT:

This course will expose students to the basic applied geometry and related skills used in drafting and mechanical drawing.



II. INSTRUCTIONAL TIME:

Class Periods: 22.5

Length of Class Periods (minutes): 70 minutes

Length of Course: 22.5 days

Unit of Credit:

PLANNED COURSE ADAPTATIONS/MODIFICATIONS

Introduction

The instructional adaptations that follow are provided as suggestions to be implemented with all students, particularly with those in need of special education services including the gifted. This listing is in no way intended to be exhaustive. Rather, it is reflective of some major considerations in the area of curriculum adaptations/modifications.

These instructional adaptations will work with any student, but are especially beneficial to those in need of learning support. Some may argue that these modifications are simply *good teaching*. Indeed, modifications of this type do represent good teaching. These principles of good teaching become instructional modifications whenever: (1) certain students in a particular class require such modifications *above and beyond* what is typically required by *most* students in that class and (2) without these modifications, these same students would not succeed.

Assessment is an integral part of instruction reflecting student progress as well as achievement. Therefore, also included are suggestions for assessment modifications.

- Peer Support
- Cooperative learning among peers
- Modeling
- Development of Information Organizer
- Development of Graphic Organizer
- Development of structured study guides
- Student selection of instructional material (i.e., reading, writing, math)
- Taped lessons
- Copy notes (peer or teacher)
- Student conferencing
- Combine and vary modes of lesson presentation
- Adjust language level to match the developmental and intellectual levels of students
- Let student practice given examples first. Then assign tasks to be completed.
- Provide opportunity for guided and independent practice in a variety of situations
- Limit number and length of directions
- Have students repeat/review directions (i.e., peer to peer, student to teacher)
- Give feedback that is as immediate, specific, and objective as possible
- Clarify error responses so that students do not make the same errors over and over again
- Reinforce progress towards desired outcomes
- Breakdown complex tasks into smaller, more manageable units
- Use verbal prompts to elicit desired results
- Use manual guidance (i.e., hand over hand) to facilitate correct responses
- Computer assisted instruction
- Assessment based upon teacher observation of student performance (i.e., daily work, portfolio, artifacts, projects)
- Extended test time
- Test read to student by teacher or peer
- Oral testing (i.e., student retelling of information)
- Open book/note test
- Alternate testing (any demonstration of a student's understanding of concepts)
- Retesting
- Reduce the number of responses required on tests
- Use of curriculum based assessment
- Vary test format
- Objectively define mastery as related to each task. Tasks should be learned to mastery
- Reduce or remove distracting stimuli
- Use of concrete objects and manipulatives in all stages of instruction and assessment
- Emphasize important information
- Allow extra time to complete assignments/projects
- Limit the number of assigned tasks in the initial stages of learning. As the student's competency increases, expect the student to complete the same number of tasks as the rest of the class
- Use supplemental materials
- Alternate assignments accepted (i.e., modification to homework assignments)
- Flexible grouping/individual assistance
- Seating to accommodate needs
- Teacher proximity
- Use behavioral management techniques (i.e., contracts, time-out, token system, charts)

PREFACE

Users and information seekers should familiarize themselves with the purpose and terminology of this **Planned Course Curriculum Guide (PCCG)**. We suggest that you first read the following:

- **PCCG PURPOSE AND INTENT**
- **PCCG DEFINITIONS**

The PCCG specifies the unit lesson outcome, essential content, standards, activities, resources, and evaluation of student performance. This sector provides the means to initiate the learning activities to attain the program goal as identified in the course description and intent.

The standards and outcomes are minimal expectations; further embellishment of the course is discretionary with the instructor depending upon the capability of the students.

This PCCG is designed as an ACTIVE document capable of technological modification as required.

The instructional delivery of this curriculum is quality controlled through the lesson plan development of the teacher.

PLANNED COURSE CURRICULUM GUIDE (PCCG) PURPOSE AND INTENT

The Planned Course Curriculum Guide (PCCG) is a multi-purpose document:

- All staff, particularly new teachers, can understand instructional expectations through the WRITTEN curriculum
- A continuing district-wide instructional process and scope and sequence of subject matter are enhanced. The WRITTEN curriculum is delivered through the TAUGHT curriculum [instructional content and learning activities] and is evaluated through the TESTED curriculum [expected levels of student achievement - learning outcomes]
- Priority student-centered outcomes are identified and attained through suggested learning activities and content designed to help insure a balanced and comprehensive basic curriculum
- Essential content and course standards provide an efficient basis for selecting appropriate instructional materials and resources
- Staff development areas for curriculum improvement are provided
- The PCCG conforms with current Pennsylvania Department of Education curriculum regulations and serves the dual feature of providing both an administrative document and an instructional guide
- Content and subject format remain flexible and adaptable to modification - an “active” document
- Special Pennsylvania Department of Education [PDE] legislation is identified
- Parents and students are provided with an overview of the instructional program and each course in particular

PLANNED COURSE CURRICULUM GUIDE (PCCG) DEFINITIONS

- **Course Description and Intent:** a brief overview of the course and program goals
- **Instructional Time:** frequency of class meetings and time/appropriate credit at the secondary level
- **Special Notes:** emphatic features or highlights and identification of Department of Education mandates found in the course
- **Unit Lesson Outcome:** describes the knowledge, skills, attitudes, student performance behaviors and areas of study that have been identified as appropriate to help the student attain the rigorous standards of a quality education
- **Teaching-Learning Activities:** suggested activities designed to help all students achieve the learning outcomes and standards
- **Outcomes/Standards:** statements establishing the minimal knowledge, skills, performance behaviors, and essential learning (content) a student must attain
- **Expected Levels of Achievement (Learning Outcomes):** what students will be expected to do as a result of the application of teaching-learning activities and content
- **Evaluation Criteria (Actual Level of Attainment):** student performance level achieved and measured through specified evaluation criteria

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

Subject Title: Technology Education

Discipline/Grade Level: 7

UNIT LESSON OUTCOME: 1

Students will be able to understand and produce blueprints.

RELATIONSHIP TO PA OUTCOMES/STANDARDS (Check Appropriate Graduation Outcomes)																						
Communications	1.1	<input checked="" type="checkbox"/>	1.2	<input type="checkbox"/>	1.3	<input type="checkbox"/>	1.4	<input type="checkbox"/>	1.5	<input type="checkbox"/>	1.6	<input checked="" type="checkbox"/>	1.7	<input type="checkbox"/>	1.8	<input checked="" type="checkbox"/>						
Mathematics	2.1	<input type="checkbox"/>	2.2	<input type="checkbox"/>	2.3	<input checked="" type="checkbox"/>	2.4	<input type="checkbox"/>	2.5	<input checked="" type="checkbox"/>	2.6	<input type="checkbox"/>	2.7	<input type="checkbox"/>	2.8	<input type="checkbox"/>	2.9	<input checked="" type="checkbox"/>	2.10	<input type="checkbox"/>	2.11	<input type="checkbox"/>
Science & Technology	3.1	<input checked="" type="checkbox"/>	3.2	<input type="checkbox"/>	3.3	<input type="checkbox"/>	3.4	<input type="checkbox"/>	3.5	<input type="checkbox"/>	3.6	<input checked="" type="checkbox"/>	3.7	<input type="checkbox"/>	3.8	<input type="checkbox"/>	3.9	<input type="checkbox"/>				
Environment & Ecology	4.1	<input type="checkbox"/>	4.2	<input type="checkbox"/>	4.3	<input type="checkbox"/>	4.4	<input type="checkbox"/>	4.5	<input type="checkbox"/>	4.6	<input type="checkbox"/>	4.7	<input type="checkbox"/>	4.8	<input type="checkbox"/>	4.9	<input type="checkbox"/>				
Civics & Government	5.1	<input type="checkbox"/>	5.2	<input type="checkbox"/>	5.3	<input type="checkbox"/>	5.4	<input type="checkbox"/>														
Economics	6.1	<input type="checkbox"/>	6.2	<input type="checkbox"/>	6.3	<input type="checkbox"/>	6.4	<input checked="" type="checkbox"/>	6.5	<input type="checkbox"/>												
Geography	7.1	<input type="checkbox"/>	7.2	<input type="checkbox"/>	7.3	<input type="checkbox"/>	7.4	<input type="checkbox"/>														
History	8.1	<input type="checkbox"/>	8.2	<input type="checkbox"/>	8.3	<input type="checkbox"/>	8.4	<input type="checkbox"/>														
Arts & Humanities	9.1	<input type="checkbox"/>	9.2	<input type="checkbox"/>	9.3	<input type="checkbox"/>	9.4	<input type="checkbox"/>														
Health, Safety & PE	10.1	<input type="checkbox"/>	10.2	<input type="checkbox"/>	10.3	<input checked="" type="checkbox"/>	10.4	<input type="checkbox"/>	10.5	<input type="checkbox"/>												
Family & Consumer Science	11.1	<input type="checkbox"/>	11.2	<input type="checkbox"/>	11.3	<input type="checkbox"/>	11.4	<input type="checkbox"/>														
Career Education & Work	13.1	<input type="checkbox"/>	13.2	<input checked="" type="checkbox"/>	13.3	<input type="checkbox"/>	13.4	<input checked="" type="checkbox"/>														

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

ESSENTIAL CONTENT OUTCOMES/STANDARD	CONTENT & INSTRUCTIONAL ACTIVITIES/STRATEGIES WITH CORRECTIVES <i>(Individually created teaching activities may be used to achieve the standards; however, listed below are activities which may be helpful:</i>	ACTUAL LEVEL OF ATTAINMENT (EVALUATION CRITERIA) ASSESSMENT	RESOURCES AND MATERIALS
<p>STANDARD 1</p> <p>How are architectural drawings used to represent real life objects?</p> <p>How is scale used in technological drawing?</p> <p>What are the uses and benefits of architectural diagrams?</p>	<p>Identify relationships between dimensions and scale.</p> <p>List uses for architectural drawings.</p> <p>Identify and explain benefits of using models.</p> <p>Produce drawings/blueprints given specific tasks.</p>	<p>Diagrams/Drawings</p> <p>Quizzes</p> <p>Projects</p>	<p>Teacher prepared instructional packet</p> <p>Drawing tools</p>

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

Subject Title: Technology Education

Discipline/Grade Level: 7

UNIT LESSON OUTCOME: 2

Students will be able to identify, interpret and reproduce different lines and line weights used in drawing.

RELATIONSHIP TO PA OUTCOMES/STANDARDS (Check Appropriate Graduation Outcomes)																						
Communications	1.1	<input checked="" type="checkbox"/>	1.2	<input type="checkbox"/>	1.3	<input type="checkbox"/>	1.4	<input type="checkbox"/>	1.5	<input type="checkbox"/>	1.6	<input checked="" type="checkbox"/>	1.7	<input type="checkbox"/>	1.8	<input type="checkbox"/>						
Mathematics	2.1	<input checked="" type="checkbox"/>	2.2	<input checked="" type="checkbox"/>	2.3	<input checked="" type="checkbox"/>	2.4	<input type="checkbox"/>	2.5	<input type="checkbox"/>	2.6	<input type="checkbox"/>	2.7	<input type="checkbox"/>	2.8	<input type="checkbox"/>	2.9	<input checked="" type="checkbox"/>	2.10	<input checked="" type="checkbox"/>	2.11	<input type="checkbox"/>
Science & Technology	3.1	<input type="checkbox"/>	3.2	<input type="checkbox"/>	3.3	<input type="checkbox"/>	3.4	<input type="checkbox"/>	3.5	<input type="checkbox"/>	3.6	<input checked="" type="checkbox"/>	3.7	<input type="checkbox"/>	3.8	<input type="checkbox"/>	3.9	<input type="checkbox"/>				
Environment & Ecology	4.1	<input type="checkbox"/>	4.2	<input type="checkbox"/>	4.3	<input type="checkbox"/>	4.4	<input type="checkbox"/>	4.5	<input type="checkbox"/>	4.6	<input type="checkbox"/>	4.7	<input type="checkbox"/>	4.8	<input type="checkbox"/>	4.9	<input type="checkbox"/>				
Civics & Government	5.1	<input type="checkbox"/>	5.2	<input type="checkbox"/>	5.3	<input type="checkbox"/>	5.4	<input type="checkbox"/>														
Economics	6.1	<input type="checkbox"/>	6.2	<input type="checkbox"/>	6.3	<input type="checkbox"/>	6.4	<input type="checkbox"/>	6.5	<input type="checkbox"/>												
Geography	7.1	<input type="checkbox"/>	7.2	<input type="checkbox"/>	7.3	<input type="checkbox"/>	7.4	<input type="checkbox"/>														
History	8.1	<input type="checkbox"/>	8.2	<input type="checkbox"/>	8.3	<input type="checkbox"/>	8.4	<input type="checkbox"/>														
Arts & Humanities	9.1	<input type="checkbox"/>	9.2	<input type="checkbox"/>	9.3	<input type="checkbox"/>	9.4	<input type="checkbox"/>														
Health, Safety & PE	10.1	<input type="checkbox"/>	10.2	<input type="checkbox"/>	10.3	<input type="checkbox"/>	10.4	<input checked="" type="checkbox"/>	10.5	<input checked="" type="checkbox"/>												
Family & Consumer Science	11.1	<input type="checkbox"/>	11.2	<input type="checkbox"/>	11.3	<input type="checkbox"/>	11.4	<input type="checkbox"/>														
Career Education & Work	13.1	<input type="checkbox"/>	13.2	<input checked="" type="checkbox"/>	13.3	<input type="checkbox"/>	13.4	<input checked="" type="checkbox"/>														

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

ESSENTIAL CONTENT OUTCOMES/STANDARD	CONTENT & INSTRUCTIONAL ACTIVITIES/STRATEGIES WITH CORRECTIVES <i>(Individually created teaching activities may be used to achieve the standards; however, listed below are activities which may be helpful:</i>	ACTUAL LEVEL OF ATTAINMENT (EVALUATION CRITERIA) ASSESSMENT	RESOURCES AND MATERIALS
<p>STANDARD 2</p> <p>Why is it important to be able to interpret a multi-view drawing?</p> <p>Why is line weight important in the development of a multi-view drawing?</p> <p>What are the uses of the different lines used in a multi-view drawing?</p>	<p>Identify relationships between multi-view drawings and the real life objects they represent</p> <p>Produce multi-view drawings using the learned tools and equipment</p> <p>Explain the role of a multi-view drawing in a real life situation</p>	<p>Diagrams</p> <p>Quizzes</p>	<p>Handouts</p> <p>Drawing tables</p> <p>Shop tools and equipment</p>

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

Subject Title: Technology Education

Discipline/Grade Level: 7

UNIT LESSON OUTCOME: 3

Students will be able to accurately produce and measure maps and drawings to 1/16 of an inch.

RELATIONSHIP TO PA OUTCOMES/STANDARDS (Check Appropriate Graduation Outcomes)																						
Communications	1.1	<input checked="" type="checkbox"/>	1.2	<input type="checkbox"/>	1.3	<input type="checkbox"/>	1.4	<input type="checkbox"/>	1.5	<input type="checkbox"/>	1.6	<input checked="" type="checkbox"/>	1.7	<input type="checkbox"/>	1.8	<input type="checkbox"/>						
Mathematics	2.1	<input checked="" type="checkbox"/>	2.2	<input checked="" type="checkbox"/>	2.3	<input checked="" type="checkbox"/>	2.4	<input type="checkbox"/>	2.5	<input type="checkbox"/>	2.6	<input type="checkbox"/>	2.7	<input type="checkbox"/>	2.8	<input type="checkbox"/>	2.9	<input checked="" type="checkbox"/>	2.10	<input type="checkbox"/>	2.11	<input type="checkbox"/>
Science & Technology	3.1	<input checked="" type="checkbox"/>	3.2	<input checked="" type="checkbox"/>	3.3	<input type="checkbox"/>	3.4	<input type="checkbox"/>	3.5	<input type="checkbox"/>	3.6	<input type="checkbox"/>	3.7	<input checked="" type="checkbox"/>	3.8	<input type="checkbox"/>	3.9	<input type="checkbox"/>				
Environment & Ecology	4.1	<input type="checkbox"/>	4.2	<input type="checkbox"/>	4.3	<input type="checkbox"/>	4.4	<input type="checkbox"/>	4.5	<input type="checkbox"/>	4.6	<input type="checkbox"/>	4.7	<input type="checkbox"/>	4.8	<input type="checkbox"/>	4.9	<input type="checkbox"/>				
Civics & Government	5.1	<input type="checkbox"/>	5.2	<input type="checkbox"/>	5.3	<input type="checkbox"/>	5.4	<input type="checkbox"/>														
Economics	6.1	<input type="checkbox"/>	6.2	<input type="checkbox"/>	6.3	<input type="checkbox"/>	6.4	<input type="checkbox"/>	6.5	<input type="checkbox"/>												
Geography	7.1	<input type="checkbox"/>	7.2	<input type="checkbox"/>	7.3	<input type="checkbox"/>	7.4	<input type="checkbox"/>														
History	8.1	<input type="checkbox"/>	8.2	<input type="checkbox"/>	8.3	<input type="checkbox"/>	8.4	<input type="checkbox"/>														
Arts & Humanities	9.1	<input type="checkbox"/>	9.2	<input type="checkbox"/>	9.3	<input type="checkbox"/>	9.4	<input type="checkbox"/>														
Health, Safety & PE	10.1	<input type="checkbox"/>	10.2	<input type="checkbox"/>	10.3	<input type="checkbox"/>	10.4	<input type="checkbox"/>	10.5	<input type="checkbox"/>												
Family & Consumer Science	11.1	<input type="checkbox"/>	11.2	<input type="checkbox"/>	11.3	<input type="checkbox"/>	11.4	<input type="checkbox"/>														
Career Education & Work	13.1	<input type="checkbox"/>	13.2	<input type="checkbox"/>	13.3	<input type="checkbox"/>	13.4	<input checked="" type="checkbox"/>														

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

<p style="text-align: center;">ESSENTIAL CONTENT OUTCOMES/STANDARD</p>	<p style="text-align: center;">CONTENT & INSTRUCTIONAL ACTIVITIES/STRATEGIES WITH CORRECTIVES <i>(Individually created teaching activities may be used to achieve the standards; however, listed below are activities which may be helpful:</i></p>	<p style="text-align: center;">ACTUAL LEVEL OF ATTAINMENT (EVALUATION CRITERIA) ASSESSMENT</p>	<p style="text-align: center;">RESOURCES AND MATERIALS</p>
<p>STANDARD 3</p> <p>Why is accurate measurement important in production and interpretation of technical drawings?</p>	<p>Measure correctly to 1/16 of an inch.</p> <p>Explain why accuracy is important in technical drawing.</p> <p>Produce accurately scaled drawings and diagrams.</p>	<p>Quizzes</p>	<p>Teacher prepared worksheets and overhead projections</p> <p>Drawing tools</p>

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

Subject Title: Technology Education

Discipline/Grade Level: 7

UNIT LESSON OUTCOME: 4

Students will be able to enlarge a scaled drawing through the use of graphing (enlarging by squares).

RELATIONSHIP TO PA OUTCOMES/STANDARDS (Check Appropriate Graduation Outcomes)																						
Communications	1.1	<input checked="" type="checkbox"/>	1.2	<input type="checkbox"/>	1.3	<input type="checkbox"/>	1.4	<input type="checkbox"/>	1.5	<input type="checkbox"/>	1.6	<input checked="" type="checkbox"/>	1.7	<input type="checkbox"/>	1.8	<input type="checkbox"/>						
Mathematics	2.1	<input checked="" type="checkbox"/>	2.2	<input checked="" type="checkbox"/>	2.3	<input checked="" type="checkbox"/>	2.4	<input type="checkbox"/>	2.5	<input checked="" type="checkbox"/>	2.6	<input type="checkbox"/>	2.7	<input type="checkbox"/>	2.8	<input type="checkbox"/>	2.9	<input checked="" type="checkbox"/>	2.10	<input type="checkbox"/>	2.11	<input type="checkbox"/>
Science & Technology	3.1	<input checked="" type="checkbox"/>	3.2	<input checked="" type="checkbox"/>	3.3	<input type="checkbox"/>	3.4	<input type="checkbox"/>	3.5	<input type="checkbox"/>	3.6	<input checked="" type="checkbox"/>	3.7	<input checked="" type="checkbox"/>	3.8	<input type="checkbox"/>	3.9	<input type="checkbox"/>				
Environment & Ecology	4.1	<input type="checkbox"/>	4.2	<input type="checkbox"/>	4.3	<input type="checkbox"/>	4.4	<input type="checkbox"/>	4.5	<input type="checkbox"/>	4.6	<input type="checkbox"/>	4.7	<input type="checkbox"/>	4.8	<input type="checkbox"/>	4.9	<input type="checkbox"/>				
Civics & Government	5.1	<input type="checkbox"/>	5.2	<input type="checkbox"/>	5.3	<input type="checkbox"/>	5.4	<input type="checkbox"/>														
Economics	6.1	<input type="checkbox"/>	6.2	<input type="checkbox"/>	6.3	<input type="checkbox"/>	6.4	<input type="checkbox"/>	6.5	<input type="checkbox"/>												
Geography	7.1	<input type="checkbox"/>	7.2	<input type="checkbox"/>	7.3	<input type="checkbox"/>	7.4	<input type="checkbox"/>														
History	8.1	<input type="checkbox"/>	8.2	<input type="checkbox"/>	8.3	<input type="checkbox"/>	8.4	<input type="checkbox"/>														
Arts & Humanities	9.1	<input type="checkbox"/>	9.2	<input type="checkbox"/>	9.3	<input type="checkbox"/>	9.4	<input type="checkbox"/>														
Health, Safety & PE	10.1	<input type="checkbox"/>	10.2	<input type="checkbox"/>	10.3	<input type="checkbox"/>	10.4	<input type="checkbox"/>	10.5	<input type="checkbox"/>												
Family & Consumer Science	11.1	<input type="checkbox"/>	11.2	<input type="checkbox"/>	11.3	<input type="checkbox"/>	11.4	<input type="checkbox"/>														
Career Education & Work	13.1	<input type="checkbox"/>	13.2	<input type="checkbox"/>	13.3	<input type="checkbox"/>	13.4	<input checked="" type="checkbox"/>														

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

ESSENTIAL CONTENT OUTCOMES/STANDARD	CONTENT & INSTRUCTIONAL ACTIVITIES/STRATEGIES WITH CORRECTIVES <i>(Individually created teaching activities may be used to achieve the standards; however, listed below are activities which may be helpful:</i>	ACTUAL LEVEL OF ATTAINMENT (EVALUATION CRITERIA) ASSESSMENT	RESOURCES AND MATERIALS
<p>STANDARD 4</p> <p>What would the procedure be for enlarging a scale drawing?</p>	<p>Students will produce an enlarged scale drawing of a picture using the enlarging-by-squares procedure</p>	<p>Diagrams</p> <p>Quiz</p>	<p>Teacher prepared handouts</p> <p>Overhead projector visuals</p> <p>Drawing tools and materials</p>

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

Subject Title: Technology Education

Discipline/Grade Level: 7

UNIT LESSON OUTCOME: 5

Students will be able to select and use appropriate drawing tools, equipment and styles.

RELATIONSHIP TO PA OUTCOMES/STANDARDS (Check Appropriate Graduation Outcomes)																						
Communications	1.1	<input checked="" type="checkbox"/>	1.2	<input checked="" type="checkbox"/>	1.3	<input type="checkbox"/>	1.4	<input type="checkbox"/>	1.5	<input type="checkbox"/>	1.6	<input checked="" type="checkbox"/>	1.7	<input type="checkbox"/>	1.8	<input type="checkbox"/>						
Mathematics	2.1	<input type="checkbox"/>	2.2	<input checked="" type="checkbox"/>	2.3	<input checked="" type="checkbox"/>	2.4	<input type="checkbox"/>	2.5	<input checked="" type="checkbox"/>	2.6	<input type="checkbox"/>	2.7	<input type="checkbox"/>	2.8	<input type="checkbox"/>	2.9	<input checked="" type="checkbox"/>	2.10	<input type="checkbox"/>	2.11	<input type="checkbox"/>
Science & Technology	3.1	<input checked="" type="checkbox"/>	3.2	<input type="checkbox"/>	3.3	<input type="checkbox"/>	3.4	<input type="checkbox"/>	3.5	<input type="checkbox"/>	3.6	<input checked="" type="checkbox"/>	3.7	<input checked="" type="checkbox"/>	3.8	<input type="checkbox"/>	3.9	<input type="checkbox"/>				
Environment & Ecology	4.1	<input type="checkbox"/>	4.2	<input type="checkbox"/>	4.3	<input type="checkbox"/>	4.4	<input type="checkbox"/>	4.5	<input type="checkbox"/>	4.6	<input type="checkbox"/>	4.7	<input type="checkbox"/>	4.8	<input type="checkbox"/>	4.9	<input type="checkbox"/>				
Civics & Government	5.1	<input type="checkbox"/>	5.2	<input type="checkbox"/>	5.3	<input type="checkbox"/>	5.4	<input type="checkbox"/>														
Economics	6.1	<input type="checkbox"/>	6.2	<input type="checkbox"/>	6.3	<input type="checkbox"/>	6.4	<input type="checkbox"/>	6.5	<input type="checkbox"/>												
Geography	7.1	<input type="checkbox"/>	7.2	<input type="checkbox"/>	7.3	<input type="checkbox"/>	7.4	<input type="checkbox"/>														
History	8.1	<input type="checkbox"/>	8.2	<input type="checkbox"/>	8.3	<input type="checkbox"/>	8.4	<input type="checkbox"/>														
Arts & Humanities	9.1	<input type="checkbox"/>	9.2	<input type="checkbox"/>	9.3	<input type="checkbox"/>	9.4	<input type="checkbox"/>														
Health, Safety & PE	10.1	<input type="checkbox"/>	10.2	<input type="checkbox"/>	10.3	<input type="checkbox"/>	10.4	<input type="checkbox"/>	10.5	<input type="checkbox"/>												
Family & Consumer Science	11.1	<input type="checkbox"/>	11.2	<input type="checkbox"/>	11.3	<input type="checkbox"/>	11.4	<input type="checkbox"/>														
Career Education & Work	13.1	<input type="checkbox"/>	13.2	<input type="checkbox"/>	13.3	<input type="checkbox"/>	13.4	<input checked="" type="checkbox"/>														

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

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ESSENTIAL CONTENT OUTCOMES/STANDARD	CONTENT & INSTRUCTIONAL ACTIVITIES/STRATEGIES WITH CORRECTIVES <i>(Individually created teaching activities may be used to achieve the standards; however, listed below are activities which may be helpful:</i>	ACTUAL LEVEL OF ATTAINMENT (EVALUATION CRITERIA) ASSESSMENT	RESOURCES AND MATERIALS
<p>STANDARD 5</p> <p>What tools and equipment are used in technical drawings?</p> <p>What are the appropriate uses for different technical drawing styles?</p>	<p>Use tools and materials appropriately in rendering technical drawings.</p> <p>Identify drawing tools and equipment.</p> <p>Identify drawing styles.</p> <p>Compare drawing style characteristics.</p>	<p>Diagrams</p> <p>Projects</p> <p>Quizzes</p>	<p>Handouts</p> <p>Text</p> <p>Models</p> <p>Samples</p> <p>Drawing tools</p>

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

Subject Title: Technology Education

Discipline/Grade Level: 7

UNIT LESSON OUTCOME: 6

Students will be able to successfully draw and dimension a multi-view drawing.

RELATIONSHIP TO PA OUTCOMES/STANDARDS (Check Appropriate Graduation Outcomes)																						
Communications	1.1	<input type="checkbox"/>	1.2	<input type="checkbox"/>	1.3	<input type="checkbox"/>	1.4	<input type="checkbox"/>	1.5	<input type="checkbox"/>	1.6	<input checked="" type="checkbox"/>	1.7	<input type="checkbox"/>	1.8	<input type="checkbox"/>						
Mathematics	2.1	<input type="checkbox"/>	2.2	<input type="checkbox"/>	2.3	<input checked="" type="checkbox"/>	2.4	<input type="checkbox"/>	2.5	<input checked="" type="checkbox"/>	2.6	<input type="checkbox"/>	2.7	<input type="checkbox"/>	2.8	<input type="checkbox"/>	2.9	<input checked="" type="checkbox"/>	2.10	<input type="checkbox"/>	2.11	<input type="checkbox"/>
Science & Technology	3.1	<input checked="" type="checkbox"/>	3.2	<input type="checkbox"/>	3.3	<input type="checkbox"/>	3.4	<input type="checkbox"/>	3.5	<input type="checkbox"/>	3.6	<input checked="" type="checkbox"/>	3.7	<input type="checkbox"/>	3.8	<input type="checkbox"/>	3.9	<input type="checkbox"/>				
Environment & Ecology	4.1	<input type="checkbox"/>	4.2	<input type="checkbox"/>	4.3	<input type="checkbox"/>	4.4	<input type="checkbox"/>	4.5	<input type="checkbox"/>	4.6	<input type="checkbox"/>	4.7	<input type="checkbox"/>	4.8	<input type="checkbox"/>	4.9	<input type="checkbox"/>				
Civics & Government	5.1	<input type="checkbox"/>	5.2	<input type="checkbox"/>	5.3	<input type="checkbox"/>	5.4	<input type="checkbox"/>														
Economics	6.1	<input type="checkbox"/>	6.2	<input type="checkbox"/>	6.3	<input type="checkbox"/>	6.4	<input type="checkbox"/>	6.5	<input type="checkbox"/>												
Geography	7.1	<input type="checkbox"/>	7.2	<input type="checkbox"/>	7.3	<input type="checkbox"/>	7.4	<input type="checkbox"/>														
History	8.1	<input type="checkbox"/>	8.2	<input type="checkbox"/>	8.3	<input type="checkbox"/>	8.4	<input type="checkbox"/>														
Arts & Humanities	9.1	<input type="checkbox"/>	9.2	<input type="checkbox"/>	9.3	<input type="checkbox"/>	9.4	<input type="checkbox"/>														
Health, Safety & PE	10.1	<input type="checkbox"/>	10.2	<input type="checkbox"/>	10.3	<input type="checkbox"/>	10.4	<input type="checkbox"/>	10.5	<input type="checkbox"/>												
Family & Consumer Science	11.1	<input type="checkbox"/>	11.2	<input type="checkbox"/>	11.3	<input type="checkbox"/>	11.4	<input type="checkbox"/>														
Career Education & Work	13.1	<input type="checkbox"/>	13.2	<input type="checkbox"/>	13.3	<input type="checkbox"/>	13.4	<input checked="" type="checkbox"/>														

LEARNING OUTCOMES/STANDARDS AND CONTENT/ACTIVITIES

Statements of student learning expectations achieved through suggested teaching-learning activities and selected content to help reach standards and graduation requirements.

ESSENTIAL CONTENT OUTCOMES/STANDARD	CONTENT & INSTRUCTIONAL ACTIVITIES/STRATEGIES WITH CORRECTIVES <i>(Individually created teaching activities may be used to achieve the standards; however, listed below are activities which may be helpful:</i>	ACTUAL LEVEL OF ATTAINMENT (EVALUATION CRITERIA) ASSESSMENT	RESOURCES AND MATERIALS
<p>STANDARD 6</p> <p>How would a draftsman successfully draw and dimension a multi-view drawing?</p>	<p>Students will produce many multi-view drawings using combinations of tools and techniques required for successful completion</p>	<p>Projects</p> <p>Diagrams</p> <p>Tests</p>	<p>Overhead Projector Visual Aids</p> <p>Handouts</p> <p>Models</p> <p>Samples</p> <p>Drawing tools</p>