

STUDY QUESTIONS — STEP 1

Name: Kevin Rausch

1. List all of the courses that are part of the Technical Drawing Program at Stevenson High School: (Use abbreviations)

Current Courses	
TEC 191/192	<u>Intro. to Tech Draw</u>
TEC 221/222	<u>Architecture CAD</u>
TEC 201/202	Engineering CAD
TEC 231/232	<u>Adv. Architecture</u>
TEC 211/212	<u>Adv. Engineering</u>
TEC 521/522	Adv. CAD
.....	<u>Architecture</u>
.....	<u>Engineering</u>
TEC 541/542	Adv. CAD 2
.....	<u>Architecture</u>
.....	<u>Engineering</u>
TEC 571/572	<u>Engineering Graphics Acc.</u>
Summer School - Education to Careers	
<u>Architecture & Engineering</u>	

2. List the TWO courses that can be taken after completing the Introduction to Technical Drawing course?

TEC 221/222	<u>Architecture CAD</u>
TEC 201/202	Engineering CAD

3. List the six units by name that are required of all students during the semester of Introduction to Technical Drawing:

Unit 1 - Introduction to Technical Drawing/CAD

Unit 2 - Lettering Styles, Tools & Techniques

Unit 3 - The Design Process for Solving Problems

Unit 4 - Sketching & Orthographic Projection

Unit 5 - Drawing Equipment, Tools & Supplies

Unit 6 - Interpretation, Assembly & Prototyping

4. What is Technical Drawing?

What is Technical Drawing?

Technical drawing is the study of the procedures, tools, supplies, skills and techniques used to record and communicate the shape and size of a product. Every product we have today (cars, houses, beds, tables, chairs, desks, appliances, tool packages, clothing, toys, dishes, radios, CD players, video games, roads, bridges, airplanes, ships, buses, computers, telephones, fax machines, copiers, air-conditioners, heaters, light bulbs, keys, etc.) began as an "idea" in some person's head. Before these "ideas" became products, they had to be drawn on paper. The "drawings" had to show what the "idea" looked like from different directions (top, front and right side views); how long, wide and high the object was; what materials were needed to make the object and what the product was called (model name and number).

Architects, engineers, designers, drafters, CAD operators and illustrators make "assembly and detail drawings" so carpenters, machinists, electricians, welders and other tradesmen can make products. These technical drawings form a "universal graphic language using pictures (views) and numbers (dimensions) that should be understood (readable) by anyone regardless of the language they speak.

5. List five (5) industries (i.e. aerospace) that use Technical Drawings?

<u>Aerospace</u>	<u>Aviation</u>	<u>Automotive</u>
<u>Packaging</u>	<u>Construction</u>	

7. What is the purpose of the "Information Sheet"?

Begin by looking over the "Information Sheet" for a unit of study. The "Information Sheet" outlines the unit of study and provides you with "Objectives", "References", and "Assignments".

8. What is the purpose of the "Study Questions"?

Begin working on the "Assignments" by writing out the answers to the "Study Questions". The "Study Questions" pertain to the most important bits of information that you will need to know when working on assignments; and most of these questions will appear on the "Unit Achievement Test" at the end of each "Step". "Study Questions" will be collected on **specified** days and are graded on neatness, spelling, completeness, and the number of correct answers.

9. What is the purpose of a "Division Sheet"?

You may now begin working on the "Division Sheet" assignment by **sketching** out your idea for the arrangement of the *title of the step, the step number, your name, and a rough idea for an illustration related to the topic*. This activity should be completed **outside of class**, at home or in study hall, to save class time for doing the actual "Division Sheet". The "Division Sheet" will provide you with opportunities to practice organizational, lettering, and sketching skills as well as serve as an "Indexing Page" for organizing your notebook.

10. What is the purpose of the "Assignments"?

Continue with the **next assignment** by reading "Assignment Sheets" and studying "Sample Drawings" as provided.

11. What is the purpose of "Optional Activities (Extra Credit)"?

When you have completed all the **required** assignments, you may work on "**Optional**" activities for "Extra Credit" **or** move on to the **next "Step"**. "Optional" activities are for the student who works at a faster rate and is interested in a more indepth understanding of the topic. **NOTE** : "Extra Credit" points will **ONLY** be counted if all **required** assignments have been completed. "Optional" activities **cannot** take the place of **missing** assignments.

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Technology Education Department Introduction to Technical Drawing or

12. What is the purpose of "Achievement Tests"?

At the completion of a "Step", you will take an "**Achievement Test**" that is based on the "**Study Questions**" and the "**Drawing Assignments**" that you have completed. The "**Achievement Test**" will indicate what you **have learned** and what you **need to work on** to be successful on future assignments

13. What is the purpose of a "Notebook"?

The purpose of our notebook is that we have it online so we can keep all of our portfolio files in there.

14. What is the purpose of "Open Lab Time"?

You can just come in the lab in periods 1 through 8 and just bring a pass and take a spot.

15. How are your "Drawing Assignments" evaluated?

The are evaluated by neatness accuracy and completeness.

16. How is your "Homework" evaluated?

It is evaluated in accuracy neatness and its increments of 25 points.

17. How is your "Notebook" evaluated?

A notebook is evaluated by at least 25 points at the smallest. **EVERYTHING IS GRADED ON 3 FACTORS! ACCURACY NEATNESS AND COMPLETENESS!**

18. Describe "W.H.A.T." and explain how it influences your six week grade:

Your W.H.A.T. (**Work Habits, Attitude, Attendance, Tardiness, and Trustworthiness**) grade will be based on the following characteristics that you demonstrate

while in a Tech Ed class. These observable traits should accumulate as you progress through the semester.

19. List the **FIVE** criteria and percentages used to calculate Six Week Grades: **YOUR SIX WEEKS GRADE** is based on **FIVE** criteria: **10%** of grade - Points on **Home Work Assignments** **50%** of grade - Points on **Drawing Assignments** **20%** of grade - Points on **Unit Tests** **10%** of grade - Points on **Notebook** **10%** of grade - Points on **W.H.A.T.**

20. Why are clean-up procedures necessary? Clean up procedures are necessary so you don't leave anything behind.

21. What is the title of your Technical Drawing textbook and who are the authors? Drafting in a computer age is the name of the book and its by Paul Ross Wallach and Dean Chowenhill.

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