

STUDY QUESTIONS — STEP 1

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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 is 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, tools, 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. These "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> | <u>Furnishings</u> |
| <u>Manufacturing</u> | <u>Transport</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"?

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"?

TO TEST THE SKILLS

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

FOR EXTRA CREDIT OR IF THERE'S NOTHING ELSE TO GIVE.

Study Questions #1 — Page 1

Technology Education Department Introduction to Technical Drawing or

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

A TEST BASED ON YOUR SKILLS

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

TO ORGANIZE OR KEEP TRACK OF MY WORK

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

STUDY HALL

15. How are your "Drawing Assignments" evaluated?

25 POINT OR MORE SCALE

16. How is your "Homework" evaluated?

ACCURACY, NEATNESS, AND COMPLETENESS

17. How is your "Notebook" evaluated?

ITS EVALUATED ON CRITERIA

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. Your W.H.A.T. grade represents 10% of your 6-week grade based on 25 points.

19. List the FIVE criteria and percentages used to calculate Six Week Grades:

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?

SO YOU CAN TAKE CARE OF YOUR TOOLS AND KEEP EVERYTHING IN WORKING ORDER

21. What is the title of your Technical Drawing textbook and who are the authors?

“DRAFTING IN A COMPUTER AGE” BY WALLACH AND CHOWENHILL