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## STUDY QUESTIONS — STEP 1

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

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

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

**Architecture CAD and Engineering CAD**

3. List the six units by name that are required of all students during the

<i>Unit 1 - Introduction to Technical Drawing/CAD</i>
<i>Unit 2 - Lettering Styles, Tools &amp; Techniques</i>
<i>Unit 3 - The Design Process for Solving Problems</i>
<i>Unit 4 - Sketching &amp; Orthographic Projection</i>
<i>Unit 5 - Drawing Equipment, Tools &amp; Supplies</i>

#### 4. 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?

Packaging, Manufacturing, Communications, Publishing, and Advertising

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

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"?

It gives something to look back to when studying for tests/quizzes. And also provides us with easy to access information.

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

A Division Sheet is like a "cover page" for a report or an "index page" for organizing a notebook. The preparation of Division Sheets allows a student to practice lettering and sketching skills; to develop composition skills in the spacing of letters and words; and to create interesting and attention getting cover and index pages.

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

To test a skill that was taught

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

"Optional" activities are for the student who works at a faster rate and is interested in a more indepth understanding of the topic.

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

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"?

An organized notebook or portfolio is a valuable reference source while you are taking technical drawing and can be helpful in the future when taking advanced courses or when interviewing for a technical drawing related job.

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

**OPEN LAB**" means that any Technical Drawing student may use the facilities and that an instructor is available to answer questions.

15. How are your "Drawing Assignments" evaluated?

**Neatness, accuracy, completeness**

17. How is your "Notebook" evaluated?

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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?

**A clean workspace is ideal. If nobody cleaned up then working will be unsafe and very difficult.**

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

**Drafting in a Computer Age. Paul Ross Wallach And Dean Chowenhill.**