

STUDY QUESTIONS — STEP 1

Name: Hayden Ford (Period 1)

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

TEC 191/192 Intro. to Tech Draw

TEC 221/222 Architecture CAD

TEC 201/202 Engineering CAD

TEC 231/232 Adv. Architecture

TEC 211/212 Adv. Engineering

TEC 521/522 Adv. CAD

..... Architecture

..... Engineering

TEC 541/542 Adv. CAD 2

..... Architecture

..... Engineering

TEC 571/572 Engineering Graphics Acc.

Summer School - Education to Careers

Architecture & Engineering

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

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? **Tracers, Drafters, Technicians, Engineers, Product Engineers.**
 7. What is the purpose of the "Information Sheet"? **It gives you objectives, references, and assignments for each unit.**
 8. What is the purpose of the "Study Question"? **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"? **To test a concept that has been 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. **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"? **To test the skills we have learned.**
 13. What is the purpose of a "Portfolio"? **To keep track of my work.**
 14. What is the purpose of "Open Lab Time"? **A study hall for people in the class to work on tech draw assignments.**

15. How are your "Drawing Assignments" evaluated? **25 point scale they are graded on neatness and accuracy.**

16. How is your "Homework" evaluated? **Neatness, Completeness, accuracy.**

17. How is your "Notebook" evaluated? **Neatness completeness, accuracy**

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.

INDEPENDENT LEARNER (25-23)

Eager to work Self-motivated Assists other students Volunteers for jobs Strives for excellence in work does research on problems

MEETS MINIMAL EXPECTATIONS (16-14)

Tries the work assigned Shows minimal improvements Participates occasionally Avoids disruptive behavior Needs some supervision Keeps track of tools and supplies Avoids unauthorized absences or tardies

EXCEEDS EXPECTATIONS (22-20)

Shows improvements Makes good use of time Accepts jobs willingly Works quietly without supervision Shows concern for others Respects others property

MEETS AVERAGE EXPECTATIONS (19-17)

Shows some interest tries to improve Is positive Asks for help

Needs little supervision Talks with others quietly

NOT MEETING MINIMAL EXPECTATIONS (13-0)

Shows no interest or does not try Disrespectful W astes time or not prepared Needs constant supervision Does not clean up work area Wastes supplies or loses tools and equipment Excessive unauthorized tardies and/or absences

Unauthorized absences and tardies will reduce your W.H.A.T. grade in the following manner:

Unauthorized Absences — Your W.H.A.T. grade will be reduced by 3 points for each unauthorized absence . . . after 4 unauthorized absences per semester you will be dropped from the class with WF per the Student Guidebook "Rules and Regulations".

Unauthorized Tardies—Your W.H.A.T. grade will be reduced by 3 points upon the sixth tardy and 1 point for each additional unauthorized tardy.

NOTE: Your W.H.A.T. grade for the second and third term begins at the reduced level and may be raised at the teacher's option if you do not have additional unauthorized absences and/or tardies during the term.

19. List the FIVE criteria and percentages used to calculate Six Week Grades: **% 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 that the next group can work in a clean area.**

21. What is the title of your Technical Drawing textbook and who are the authors? **Drafting in the computer age, Authors: Wallach, Chowenhill**

Name: Hayden Ford

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