LESSON PLAN FOR WEEK ONE ENDING 09-09-2024

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| THEME: | Drawing Studio Practice |
| DATE: | 09-09-2024 |
| CLASS: | SSI |
| TIME: | 10:30-11:50 |
| DURATION | 80 Minutes |
| PERIOD | 5 & 6 |
| SUBJECT: | Technical Drawing |
| UNIT TOPIC: | Drawing materials and equipment |
| LESSON TOPIC: | Definition of Technical drawing, Identification and uses of drawing materials and equipment |
| MODE | Entire Class |

SPECIFIC OBJECTIVE: At the end of the lesson, learners should be able to

1. Define Technical Drawing
2. Differentiate between Drawing equipment and materials
3. Identify and state the uses of drawing materials and equipment

INSTRUCTIONAL RESOURCES: Set square, Tee, Drawing board, Drawing paper, Eraser and pencil.

LESSON PRESENTATION

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| STEPS | TEACHERS ACTIVITIES | STUDENTS ACTIVITIES |
| STEP 1 | PREVIOUS KNOWLEDGE: The students used mathematical instruments in their previous class. So, they have brief knowledge of the instruments. | Students recall. |
| STEP 2 | EXPLORATION: The teacher introduces the topic with the following questions, that will arouse their curiosity thus;   1. What is Technical Drawing? 2. Mention any instrument used in Technical Drawing. 3. What are the uses of the following set square, French curve, flexible curve? as the teacher raise them high for them to see. | Students make attempt to answer the questions. |
| STEP 3 | DISCUSSION: (A) Technical Drawing.  Technical Drawing can be defined as a language used by technical men and women to communicate accurate technical descriptions and instructions.  It can also be viewed as a drawing or plan, rendered to scale, that is used to communicate direction and specifics to a group of people who are creating something to explain how something works or how to build something.  (B) Drawing materials and equipment.  (i) Drawing materials are tools or instrument used in technical drawing that do not get consumed while using them. Examples include; drawing board, tee square, etc.  (ii) Drawing equipment are items used in Technical drawing that get consumed. Example; drawing paper, pencil, etc.  (C) The following are the list of drawing instruments and materials; They include;  1. Drawing board 2. T-square 3.Rule 4. 45 degree and 30 x 60 degree triangle 5.Adjustable triangle 6.Protractor 7. Metric scale 8.Compass 9.Dividers 10.Pencils11.Technical pens12.Eraser13.Erasing shield14.Cutter, sharpener, and pencil pointer or sandpaper15.Dusting brush16.French curve17.Templates18.Drafting machines,19 paper.  Drawing Boards  A drawing board provides a straight working edge necessary for constructing horizontal and vertical lines.υIt is traditionally made of well-seasoned wood but is now also made of masonite and hard plastic. Drawing boards vary in size from 225 mm x 300 mm to1200 mmx 1800 mm and larger. The recommended size for students is 450 mm x 600 mm which will accommodate the largest sheet likely to be used. The drawing sheet can be fixed to the drawing board using thumb tacks or drafting tape.  Tee-square  The T-square is used to construct horizontal lines.υIt also serves as a base for triangles when drawing vertical lines. The T-square has two parts called the blade and the head which should be joined together firmly. The working edge of the head must not be convex or the T-square will rock when the head is placed against the board. Its accuracy is dependent on the straightness of the drawing board’s edge.  IDENTIFICATION OF DRAWING INSTRUMENTS AND MATERIALSt  http://1.bp.blogspot.com/-s63nGxpvN1E/T-eFlXv3azI/AAAAAAAAAFc/p40z6Fxrj1Q/s1600/draftingtools1.jpg | Students listen attentively and take down notes. |
| STEP 4 | APPLICATION: The knowledge of instruments and material help young technologist to choose and use instrument and materials, hence the need for the young technicians to acquire it. | Students ask questions on the topic which the teacher answers. |
| STEP 5 | EVALUATION: the teacher evaluates the students with the following questions:   1. Define Technical Drawing using your own words. 2. Differentiate between drawing material and equipment 3. Identify and uses of drawing materials and equipment | The students answer the questions. |
| Assignment | What are the following materials and equipment specifically used for?  (A) Drawing board (B) Protractor (C) Setsquare (D) Tee Square |  |
| References | Technical drawing manual by Ajayi E.K .  [www.1.bp.blogspot.com](http://www.1.bp.blogspot.com) |  |