Technical Drawing Vocabulary Guide

1. Key Vocabulary

Below is a list of important technical drawing terms with their English translations and definitions.

Spanish Term	English Term	Definition in English
Dibujo técnico	Technical drawing	A precise and detailed drawing used to communicate design and construction information.
Proyección ortogonal	Orthographic projection	A method of representing three-dimensional objects in two dimensions using multiple views.
Vista frontal	Front view	The view of an object as seen from the front, showing height and width.
Vista lateral	Side view	The view of an object as seen from the side, showing height and depth.
Vista superior	Top view	The view of an object as seen from above, showing width and depth.
Corte o sección	Section view	A drawing that shows the interior of an object by cutting through it.
Acotado	Dimensioning	The process of adding measurements to a technical drawing.
Línea de corte	Cutting line	A line indicating where a section cut is made on a drawing.
Perfil	Profile	The outline or contour of an object.
Norma	Standard	A set of rules or guidelines used to ensure consistency in technical drawings.
Dimensión	Dimension	A measurable extent of length, width, or height in a drawing.
Ejes	Axes	Imaginary lines used to define an object's orientation in space.
Símbolo	Symbol	A graphical representation used to indicate specific details in technical drawings.
Superficie	Surface	The outermost layer or area of an object.
Detalle	Detail	A small or intricate part of a drawing that provides more information.
Proyección	Projection	The method of displaying a 3D object onto a 2D plane.

Pieza	Part	A component or section of a mechanical object.
Sólido	Solid	A three-dimensional geometric shape with volume.
Perspectiva	Perspective	A technique to represent 3D objects in a way that mimics human vision.
Boceto	Sketch	A quick, freehand drawing that represents an initial concept.

2. Activities to Practice Vocabulary

Activity 1: Matching Game (Word to Definition)

Instructions:

- Match the words in Column A with the correct definition in Column B.

Column A (Word)	**Column B (Definition)**
1. Cutting line	A. A method of representing three-dimensional objects in two dimensions using multiple views.
2. Profile	B. The process of adding measurements to a technical drawing.
3. Dimensioning	C. A drawing that shows the interior of an object by cutting through it.
4. Section view	D. A line indicating where a section cut is made on a drawing.
5. Standard	E. A technique to represent 3D objects in a way that mimics human vision.
6. Perspective	F. The view of an object as seen from the front, showing height and width.
7. Front view	G. A set of rules or guidelines used to ensure consistency in technical drawings.
8. Orthographic projection	H. The outline or contour of an object.
9. Technical drawing	I. A precise and detailed drawing used to communicate design and construction information.
10. Top view	J. The view of an object as seen from above, showing width and depth.

Activity 2: Fill in the Blanks

Instructions:

- Fill in the blanks with the correct term from the word bank, in English and (Spanish).

Sentences:

1. A _____ (_____) is used to show the interior details of an object by cutting through it.
2. The _____ (_____) is the view of an object as seen from the side, showing height and depth.
3. Engineers use _____ (_____) to add measurements to a technical drawing.
4. A _____ (_____) is an imaginary line used to define an object's orientation in space.
5. The _____ (_____) is a method of displaying a 3D object onto a 2D plane.
6. A quick, freehand drawing of an initial idea is called a _____ (_____).

Activity 3: True or False

Instructions:

- Read each statement and determine whether it is true or false.

1. A **sketch** is a highly detailed and precise technical drawing. _____
2. **Orthographic projection** represents 3D objects using multiple 2D views. _____
3. A **section view** shows the internal details of an object. _____
4. **Dimensioning** is the process of removing unnecessary details from a drawing. _____
5. A **top view** represents an object as seen from the side. _____
6. **Cutting lines** indicate where an object is sectioned for a better view. _____

Activity 4: Translation Exercise

Instructions:

- Translate the following sentences from English to Spanish.

1. Technical drawing must include all dimensions.
2. The front view of the object shows its height and width.
3. The section view helps us understand the internal parts of the design.
4. The designer used a sketch to show the initial concept.

5. We need to apply standard rules in the projection of this part.
6. A perspective drawing makes the object look more realistic.

Activity 5: Multiple Choice

Instructions:

- Choose the correct answer for each question.

1. What is a **section view** used for?

   a) To show internal details of an object
   b) To display an object in 3D
   c) To remove unnecessary lines

2. What does **dimensioning** refer to?

   a) Coloring the drawing
   b) Adding measurements to the drawing
   c) Erasing unnecessary parts

3. What does a **top view** show?

   a) The object as seen from the side
   b) The object as seen from above
   c) The object as seen from the front

4. What does a **cutting line** indicate?

   a) Where a section cut is made
   b) The height of an object
   c) The width of an object

5. What is a **sketch**?

   a) A precise technical drawing
   b) A quick freehand drawing
   c) A finished mechanical part

6. What is **orthographic projection**?

   a) A method of displaying 3D objects in multiple 2D views
   b) A way to shade objects
   c) A technique for creating perspective drawings