

Civil Engineering and Architecture
(Mr. Windes, Mr. Leutzinger, & Mr. Gant)

Lesson: **April 6th 2020**

Learning Target:

Students will define and identify the elements and principles used in design

Bellwork

Think about the things that you use every day. Your phone, car, tv remote, toothbrush, etc. Choose one and create a written description of it.

What types of descriptive words did you use? How did you describe it?

You probably used words like smooth or rough to describe it's texture, small or large to describe its size or scale, thick or thin to describe it's proportions, and maybe black or white to convey its color. These are examples of elements and principles of design.

Write down any other elements or principles of design that you can think of (Hint: There are seven of each).

Let's get started!

A simple way to remember the difference between the elements and principles of design is this: Elements of design are used to create Principles of design.

Elements of Design: Principles of Design

- | | |
|----------------------------------|---|
| <input type="checkbox"/> Line | <input type="checkbox"/> Pattern/Variety |
| <input type="checkbox"/> Shape | <input type="checkbox"/> Contrast |
| <input type="checkbox"/> Form | <input type="checkbox"/> Emphasis |
| <input type="checkbox"/> Color | <input type="checkbox"/> Balance/Symmetry |
| <input type="checkbox"/> Value | <input type="checkbox"/> Scale |
| <input type="checkbox"/> Texture | <input type="checkbox"/> Rhythm |
| <input type="checkbox"/> Space | <input type="checkbox"/> Unity/Harmony |

Here is a website to help you understand the elements and principles of design:

<http://dowlingart.weebly.com/elements-of-art--principles-of-design.html>

Practice

Now that you have a better understanding of the elements and principles of design, let's apply what we've learned to the field of architecture. List 2 or 3 elements and principles for each photo that the architect use in his or design.



www.houseplans.com

Elements: _____

Principles: _____



www.houseplans.com

Elements: _____

Principles: _____



www.houseplans.com

Elements: _____

Principles: _____



www.houseplans.com

Elements: _____

Principles: _____

Check your work

There's more than one correct answer as long as you can defend your answer, but here's an example of what I expect for your responses.



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Elements: Shape, Form, Color

Principles: The triangle shapes of the roof on each side of the home creates symmetry. The forms created by the garage and room on the opposite side provide a nice balance for the structure. The color palette chosen works well in some aspects and poorly in another. The lighter color provides highlights around the windows but the darker color chosen for the front door tends to hide it in the shadows.



www.houseplans.com

Elements: Color, Texture, Shape

Principles: Contrast is created through the use of color and texture highlighting the entry. The rectangular shape is used to create patterns in the driveway, garage door, and entry door.

Resources:

Click on the links below for additional information and to check your understanding!

<https://www.johnlovet.com/design-overview>

<https://www.canva.com/learn/design-elements-principles/>