

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Study Sheet: Depth Perception

What is depth perception? **The ability to see things in three dimensions (length, width and depth)**

How do the techniques of tinting and shading make something appear three-dimensional?

**Tinting and shading are the tools used to create light and shadow.**

Why are shadows and light so important in creating realistic images?

**Objects cast shadows because they are three-dimensional. Therefore, when we see objects that cast shadows, we interpret them as being three-dimensional.**

What is *chiaroscuro*?

**A combination of the Italian words for light and dark. In painting, the term refers to the contrast between light and dark.**

What role does *chiaroscuro* play in creating the illusion of depth?

**Contrast created by *chiaroscuro* mirrors the contrast we see in real life.**

In art, what is *value*?

**A color's brightness or dullness, as well as shadows and contrasts created with color**

How did Leonardo da Vinci revolutionize realistic painting?

**He invented *sfumato*.**

What is *sfumato*?

**Italian for "smoke." A technique created by Leonardo da Vinci in which layers of paint create gentle transitions between colors and objects.**

Why is *sfumato* more successful than solid outlines in creating realistic looking figure?

**Because in real life, people and things do not have outlines. Our eyes use depth perception to differentiate between objects in the foreground of our vision, and objects in the background. Da Vinci uses *sfumato* to differentiate objects from their backgrounds and mimic our natural ability to perceive depth.**