

NAME \_\_\_\_\_

### Night Physiology and Visual Illusions

1. The five self-imposed stresses that affect night vision are:

\_\_\_\_\_, \_\_\_\_\_,  
\_\_\_\_\_, \_\_\_\_\_, and  
\_\_\_\_\_.

2. Rods are responsible for color.                    TRUE                    FALSE

3. Cones are concentrated in the fovea creating a night “blind spot.”

TRUE                    FALSE

4. \_\_\_\_\_ assist with peripheral vision.

### Match the Visual Illusion to the definition

(Write the letter of the definition in the column in front of the name)

Answer	Illusion		Definition
	<b>Autokinesis</b>	<b>A</b>	Light increasing or decreasing in luminescence is interpreted as approaching or retreating.
	<b>Relative motion</b>	<b>B</b>	Heat wave, snow, or sleet
	<b>Confusion with Ground Lights</b>	<b>C</b>	Target Hypnosis
	<b>Reversible Perspective Illusion</b>	<b>D</b>	Approaching line of mountains, pilot wants to climb
	<b>Flicker Vertigo</b>	<b>E</b>	Cloud formation confused with the horizon
	<b>Height Perception Illusion</b>	<b>F</b>	Absence of ground features for reference
	<b>False Horizons</b>	<b>G</b>	Flashing light annoyance
	<b>Altered Reference Planes</b>	<b>H</b>	Aircraft may appear to be moving away when it is really moving to you
	<b>Fascination (fixation)</b>	<b>I</b>	Confuse ground lights with stars
	<b>Structural Illusions</b>	<b>J</b>	Perception of moving forward based on the movement of another object
	<b>Size-Distance Illusion</b>	<b>K</b>	Static light appears to move when stared at