

# Quiz #29: VSEPR

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

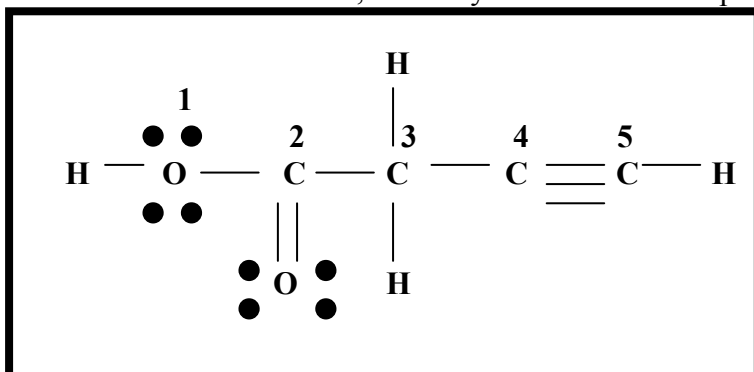
Chemistry – Block \_\_\_\_\_

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

For each of the following, do the VSEPR arithmetic, draw the molecular shape and then name the molecular shape.

<p><b>SiO<sub>2</sub></b></p> <p>How many e<sup>-</sup> pairs? <b>2</b></p> <p>Drawing:</p>          <p>Name: <b>LINEAR</b></p>	<p><b>GeCl<sub>2</sub></b></p> <p>How many e<sup>-</sup> pairs? <b>3</b></p> <p>Drawing:</p>          <p>Name: <b>ANGULAR</b></p>	<p><b>XeO<sub>2</sub></b></p> <p>How many e<sup>-</sup> pairs? <b>4</b></p> <p>Drawing:</p>          <p>Name: <b>ANGULAR</b></p>
<p><b>XeF<sub>4</sub></b></p> <p>How many e<sup>-</sup> pairs? <b>6</b></p> <p>Drawing:</p>          <p>Name: <b>SQUARE PLANAR</b></p>	<p><b>SO<sub>2</sub><sup>-2</sup></b></p> <p>How many e<sup>-</sup> pairs? <b>4</b></p> <p>Drawing:</p>          <p>Name: <b>ANGULAR</b></p>	<p><b>Br<sub>3</sub><sup>-1</sup></b></p> <p>How many e<sup>-</sup> pairs? <b>5</b></p> <p>Drawing:</p>          <p>Name: <b>TEE SHAPE</b></p>

For each numbered “center,” identify the molecular shape at that “center.”



**1 ANGULAR**

**2 TRIGONAL PLANAR**

**3 TETRAHEDRAL**

**4 LINEAR**

**5 LINEAR**