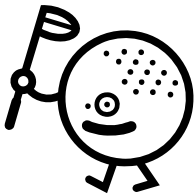




MINIATURE GOLF COURSE DESIGN

Our Geometry Class has been asked to design a new miniature golf course. We will need to design 18 greens, with every green different from all the others. In order to make the mini golf course attractive, we need to make it



challenging enough with plenty of angle shots. The course owner has asked that this section of the course be level (no hills or loop-de-loops).

To accomplish this, everyone in the class will design 2 greens each. You need to incorporate 4 different types of angles in each green. You will also need to show the 'perfect shot', how to get a hole-in-one!



RUBRIC FOR MINIATURE GOLF COURSE DESIGN				
	Bogie	Par	Eagle	Hole-In-One
Course Design	<input type="checkbox"/> 1 green designed on grid paper. <input type="checkbox"/> Design includes right angles <input type="checkbox"/> Design includes straight angles <p style="text-align: right;">12</p>	<input type="checkbox"/> 2 greens designed on grid paper Each green includes at least: <input type="checkbox"/> 1 acute angle <input type="checkbox"/> 1 obtuse angle <input type="checkbox"/> 2 right angles <input type="checkbox"/> 2 straight angles <p style="text-align: right;">15</p>	<input type="checkbox"/> 2 greens designed on grid paper <input type="checkbox"/> 1 green contains an obstacle Each green includes at least: <input type="checkbox"/> 2 acute angles <input type="checkbox"/> 2 obtuse angles <input type="checkbox"/> 2 right angles <input type="checkbox"/> 2 straight angles <p style="text-align: right;">20</p>	<input type="checkbox"/> Requirements for Eagle, plus more than 1 obstacle on both greens. <p style="text-align: right;">22</p>
Angles	<input type="checkbox"/> Label 3 to 5 angles on the design On a separate chart, classify 3 to 5 angles <input type="checkbox"/> by type (acute, obtuse, right, straight) <input type="checkbox"/> include angle measurements At least 3 angles are measured accurately <p style="text-align: right;">30</p>	<input type="checkbox"/> Label 3 to 5 angles on each green On a separate chart, classify 6 to 10 angles <input type="checkbox"/> by type (acute, obtuse, right, straight) <input type="checkbox"/> include angle measurements At least 6 angles are measured accurately <p style="text-align: right;">35</p>	<input type="checkbox"/> Label 5 to 7 angles on each green On a separate chart, classify 9 to 14 angles <input type="checkbox"/> by type (acute, obtuse, right, straight) <input type="checkbox"/> include angle measurements At least 8 angles are measured accurately <p style="text-align: right;">40</p>	<input type="checkbox"/> Requirements for Eagle, plus all angles measured accurately <p style="text-align: right;">42</p>
Shots	<input type="checkbox"/> Show if a hole-in-one is possible. <p style="text-align: right;">8</p> For 1 hole, <input type="checkbox"/> Show a missed shot. <input type="checkbox"/> Include a conjecture on where the ball will end up most often. <input type="checkbox"/> Attempt to explain your reasoning. <p style="text-align: right;">6</p>	<input type="checkbox"/> Show if a hole-in-one is possible. <input type="checkbox"/> Name the line segments that make up the 'perfect shot' for 1 green. <p style="text-align: right;">10</p> For 1 hole, <input type="checkbox"/> Show a missed shot. <input type="checkbox"/> Include a conjecture on where the ball will end up most often. <input type="checkbox"/> Attempt to explain your reasoning. <p style="text-align: right;">10</p>	<input type="checkbox"/> Show a hole-in-one shot for 2 greens. <input type="checkbox"/> Name the line segments and angles that make up the 'perfect shot' for 1 green. <p style="text-align: right;">16</p> For 1 hole, <input type="checkbox"/> Show a missed shot. <input type="checkbox"/> Include a conjecture on where the ball will end up most often. <input type="checkbox"/> Attempt to explain your reasoning. <p style="text-align: right;">10</p>	<input type="checkbox"/> Requirements for Eagle for 2 greens <p style="text-align: right;">16</p>
Creativity/Attractiveness	<input type="checkbox"/> Design is neat <p style="text-align: right;">4</p>	<input type="checkbox"/> Design is colorful and neat <p style="text-align: right;">6</p>	<input type="checkbox"/> Design is creative, colorful and neat <p style="text-align: right;">8</p>	<input type="checkbox"/> Interview a mini-golf course designer. <p style="text-align: right;">16</p>
Total	60	76	94	108

Creative, colorful, neat – we will discuss how to grade this subjective criteria.