

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of the material</b>     | Geometry of Goal-Scoring                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Target group</b>             | 9 – 12 and 13 – 15 years old                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>The type of the material</b> | A tip                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>              | <p>Block off one-third of a soccer net. Shoot into the smaller side from a set distance, but systematically varying the angle to the goal line. Take enough shots at each angle to get a reliable sample. How does success vary with angle? For a basic project: How do you think your success rate will vary with angle?</p> <p>Draw a conclusion from your experimental results. A bar graph showing success rate at different angles can help to illustrate your conclusion.</p> |
| <b>Material</b>                 | <a href="http://www.sciencebuddies.org/sciencefairprojects/project_ideas/Math_p038.shtml">http://www.sciencebuddies.org/sciencefairprojects/project_ideas/Math_p038.shtml</a>                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>                   | Science Buddies Staff. (2014, June 20). <i>Geometry of Goal-Scoring</i> . Retrieved June 30, 2017 from <a href="https://www.sciencebuddies.org/science-fair-projects/project_ideas/Math_p038.shtml">https://www.sciencebuddies.org/science-fair-projects/project_ideas/Math_p038.shtml</a>                                                                                                                                                                                          |