

- investigate, through inquiry, the properties of light, and predict its behaviour, particularly with respect to reflection in plane and curved mirrors and refraction in converging lenses;
- demonstrate an understanding of various characteristics and properties of light, particularly with respect to reflection in mirrors and reflection and refraction in lenses.

You will design a mini golf hole with the following:

- At least three 90 degree turns (3 full corners minimum)
- At least three obstacles (within or along the hole)
- A distinct “tee box” and a “distinct hole”

You will include in your drawing:

- Two strategies for getting a hole in one.
 - One which takes the minimum number of reflections
 - The second is of your choosing

Marking:

- **Communication** (Level 1 - 4+):
 - Creativity in golf hole design; include a theme!
 - Neatness, ruler used, name on sheet,
 - Colour and shading incorporated, interesting design (wow factor!!)
- Would an investor of a mini-golf business want your design?*



- **Application** (Level 1 - 4+):
 - 2 different shots displayed
 - Every reflection follows the laws of reflection (angle of incidence = angle of reflection)
 - All angles are measured and indicated on the design
 - Every reflection labeled as follows:
 - Normal (shown with dashed line) = -----
 - Angle of incidence = i
 - Angle of reflection = r



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