Sci 8 Amazing Ray Contest

Your task is to create a complex pathway (like a maze) that a light or laser beam would travel along. You will map all of this out with a pencil on a big white piece of paper and try to score the most points.

You will have the following optical accessories to enhance your maze:

* 2 small plane mirrors
* 1 convex mirror
* 1 concave mirror
* 1 convex lens
* 1 concave lens
* 1 small prism
* 1 ray box
* One 11 x 17 piece of paper

Maximizing the length of the light path, using correct vocabulary, and the maximum number of optical accessories correctly will gain you the most points.

Scoring:

* 1 point for every 10cm of ray travel
* 2 points for every vocabulary label correctly used (NOTE: you cannot use a vocabulary label more than once)
* 3 points for every optical accessory used to change the path of light
* All points will only count if they are on the 11 x17 paper
* All items must be labelled

Hand in paper copy of your maze:

1. Trace the light path.
2. Indicate direction with arrows or “start” and “end”
3. Draw and label each accessory used
4. Measure each section and label the length in cm
5. All group members’ names.