When you have completed your assignment, submit it to the dropbox.

Create each of the situations below. In doing so, choose a type of mirror (convex or concave), a radius of curvature, and an object position to create the effect described. The object must be properly placed relative to the focal point or center of curvature to create the desired effect. Draw a scaled ray diagram on grid paper to support your choices for each of the following situations:

1. To project an enlarged image of a luminous object on a screen.
2. To use as a passenger side view mirror on a car.
3. To get two times magnification for applying eye makeup.

**Checklist:**

As you complete your assignment, please review the checklist below to ensure that you have included all needed items.

|  |  |
| --- | --- |
| ***Your assignment should include all of the criteria listed below to receive full credit.*** | |
| **Included?** | **Item** |
|  | 1. Each of the three situations is represented. |
|  | 1. For each situation, a type of mirror, a radius of curvature, and an object position are used to create the effect described. |
|  | 1. For each situation, the object is properly placed relative to the focal point or center of curvature to create the effect described. |
|  | 1. For each situation, a scaled ray diagram is drawn on grid paper to support the student's choices in setting up the situation. |
|  | 1. Presents information clearly to audience. |
| ***You may need to use resources outside of this course to complete this assignment. If so, please submit a Works Cited document. If you need assistance, visit the Developmental Module for information on citing any resources that you used.*** | |
| **Included?** | **Item** |
|  | For resources used outside of the course, a Works Cited document is submitted along with the assignment. |