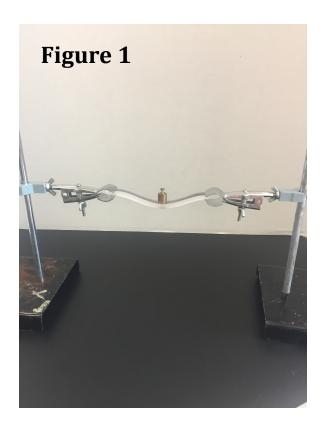
The Chemistry of Coatings: Beam Testing Set-Up

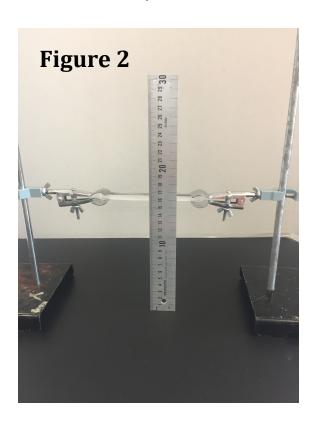
Set-Up Supplies

- 1. Weights (25g-100g)
- 2. 2 ring stands with clamps
- 3. Epoxy Resin beams
- 4. Metric Ruler

Set-Up Procedure

- 1. Move together two ring stands with clamps, leaving approximately 10 cm between them.
 - a. Make sure to mark the table with tape so these are in the same location every time.
- 2. Place the cured epoxy beam is the same length inside the clamp and secure.
- 3. Immediately once the beams are in place start the timer and place the weight on top of the beam. (Figure 1)
- 4. After three minutes, measure the height from the table to the top of the middle of the beam. (Figure 2)
- 5. Repeat with all cured beams.
- 6. If the epoxy beams did not cure then the beam automatically fails.





Adapted from Battle of the Beams Activity Lesson Plan-RET Program University of Houston