# Assessment Criteria: Roller Coaster Design Project

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**Student Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Team Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Objective:** Assess the quality of your roller coaster design and simulation based on the following criteria:

1. **Creativity (10 points):**
   * Did your design exhibit imaginative and innovative elements?
   * Were creative solutions applied to meet design criteria?
2. **Accuracy (20 points):**
   * Did your design adhere to the specified height, length, and loop criteria?
   * Were mathematical calculations accurate?
3. **Completeness (20 points):**
   * Did your roller coaster design cover all necessary elements?
   * Were safety and functionality considered in the design?
4. **Quality of Simulation (20 points):**
   * Was the roller coaster simulation well-executed?
   * Did it accurately represent your design?
   * Were any issues identified and addressed during simulation?
5. **Presentation (10 points):**
   * Were you able to effectively communicate your design process and challenges?
   * Did you engage the audience during your presentation?
6. **Teamwork and Collaboration (20 points):**
   * Did you work well with your team members?
   * Did you actively participate in the collaborative design and simulation process?

**Total Points:** \_\_\_\_\_\_\_\_ out of 100

**Feedback:**

* Strengths: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Areas for Improvement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Overall Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Additional Comments:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_