

Jr High Summer Institute 2010

Week 1
July 5 - July 9, 2010

From tubes-and-marbles and magnetic roller coasters up to a computer simulated roller coaster where you decide how high, how fast, and how many twists and turns. Students will learn the physics behind roller coaster track design and function. In the welding portion of the class, students will be cutting steel, spot welding, drilling, riveting, grinding filling, and using oxy-acetylene brazing and hand forming techniques to create steel flowers

Welding & Roller Coasters: Week 1 July 5th, 2010	Monday	Tuesday	Wednesday	Thursday	Friday	Instructor
8:00 - 9:00 a.m drop off	drop off	drop off	drop off	drop off	drop off	Camp Counselor
9:00 - 10:45 (1 hour 45 min) Block A	Camp Closed for Independence Day	Physics and Rollercoasters Building Rollercoasters	Building Rollercoasters	Designing and Simulating Rollercoasters	Designing and Simulating Rollercoasters	Sam Bolanos & Lee Hilliard
10:45-11:05 (20 min) break	20 min Break	20 min Break	20 min Break	20 min Break	20 min Break	Camp Counselor
11:05 - 12:50 (1 hr 45 min) Block B	Camp Closed for Independence Day	Safety Demonstration	Welding Steel Flowers	Welding Steel Flowers	Welding Steel Flowers	Idelle Okman-Tyzbir
12:50 - 1:40 (50 min lunch)	50 min Lunch	50 min Lunch	50 min Lunch	50 min Lunch	50 min Lunch	Camp Counselor
1:40 - 3:25 (1 hr 45 min) Block C	Camp Closed for Independence Day	Create Flower Patterns	Welding Steel Flowers	Welding Steel Flowers	Welding Steel Flowers	Idelle Okman-Tyzbir
3:30 Pick-UP	Pick Up	Pick Up	Pick Up	Pick Up	Pick Up	Camp Counselor