

## Grand Challenge Project Grading Rubric

Safety Factors:		___/30
• Translation of objects in the MRI room	___/10	
• Translation of metal objects in the patient's body	___/5	
• Torque of metal objects in the patient's body	___/5	
• Effects of induced currents on equipment	___/5	
• Effects of induced currents on the patient	___/5	
Magnetostatics and Electromagnetism		___/60
• Fields produced by superconducting coils	___/10	
• High Frequency changing fields	___/5	
• Magnetic Moment and Torque	___/10	
• Faraday's Law of Induction	___/10	
• Example Calculations	___/10	
• Explains translational force on a current loop and magnet	___/10	
• Explains rotation of a current loop and magnet	___/5	
<i>Project Choices:</i>		___/10
Instructional Pamphlet:		
• Well-organized and clearly stated	___/5	
• Creativity	___/2	
• Effort	___/3	
Web Site:		
• Accurate and easy to navigate	___/5	
• Creativity	___/2	
• Effort	___/3	
PowerPoint Presentation:		
• Explained well to audience	___/5	
• Creativity	___/2	
• Effort	___/3	
<b>Total</b>		___/100