

# Full Throttle STEM™ at Eldora Speedway: Print 3D Replacement Parts

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## *Challenge Problem and Resources*



### **Developed by:**

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Gaming Research Integration for Learning Laboratory™ (GRILL™)  
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## 1. CHALLENGE PROBLEM: 3D PRINT REPLACEMENT PARTS

Create a high performance RC car by modifying 3D replacement parts. RC cars have many plastic or aluminum components.

### 1.1. THE TOOLS

Use 3D modeling software such as SolidWorks, a physical RC car model, and a 3D printer.

### 1.2. THE CHALLENGE

Solutions to this problem will involve creating a 3D part file and a printed plastic replacement component for an RC car that would improve vehicle performance.



Figure 1: 3D printer