

To: Casts & us

Dear Engineers,

I am an eighth grade student who has broken my fibula.

My cast is itchy. Please design a cast to help me

with my problem. Could you please hurry? My bone heals

in five more weeks.

Sincerely,

Suffering Student

Forest Grove Middle School

STUDENT WORKSHEET

Poster Session

Scientists and engineers often share their ideas with posters. You and your teammates will be designing a poster to explain your cast design to other members of your class. Include the following topics on your poster:

- The engineering design process.
- The problem your group was trying to solve.
- Any preliminary sketches you have made as well as your final design.
- A description of your prototype.
- A list of materials used.
- A description of what properties the materials have (e.g., weight, flexibility, or strength).
- Examples of how you evaluated your design to determine if it works.
- An analysis of whether the new design solves the original problem.
- A description of how you would improve your prototype if given time for a redesign.