Prosthetic Leg Design
Biomedical Technology Exploration
MATERIAL
OPTIONS
CUSHION
SUGGESTIONS

Recycle your old T-shirts
ATTACHMENTS
SUGGESTIONS
OTHER CONSIDERATIONS

- **Size**
  - height & width...should resemble the size of recipient’s leg

- **Weight**
  - Can recipient lift & use the leg without significant effort?

- **Strength**
  - Can it hold the recipient’s body weight?

- **Stability**
  - Can the recipient stand on the leg without significant effort?

- **Aesthetics**
  - Will the appearance cause people to stare?
COST - $6 budget!

- Materials will be provided for you within your budget
- Once you have spent your budget, you will need to provide your own supplies
- Use old items from around your house (i.e. some of the materials we already discussed)
- You will write a proposal with cost estimates.
COST - $6 budget!

- 2 ft PVC pipe = $2.00
- Plunger = $6.00
- Bungee Cords = $2.00
- Large Sponge = $2.00
- Duct Tape = $7.00 (share with others?)
Assignment

- Draw prosthetic leg design & detail materials (Next Monday)
- Proposal (Next Wednesday)
  - Document that engineers must write before starting design
  - Describes design and cost
- Build leg (May 11, 13, 18, 20, & 27)
- Present design to class
  - Class Presentations on June 1 and 3
  - 10 minute presentation
  - Talk about design, cost, materials used, improvements