

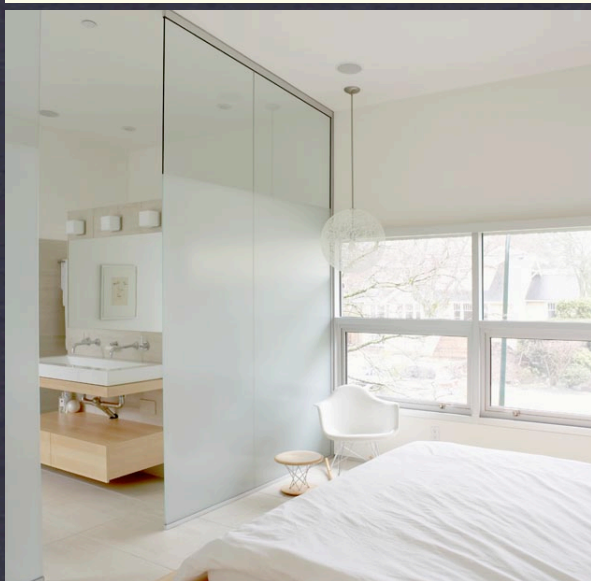
Prosthetic Leg Design

Biomedical Technology Exploration



MATERIAL

OPTIONS



Recycle your old T-shirts



CUSHION
SUGGESTIONS



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