

## Feasibility Test Plan

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**Year:** 2015 (2<sup>nd</sup> Year)

**Concept:** Concept 35 – Thera Band

**Description:** Users pull at theraband either using arms or legs, depending where product is placed. Flashing lights indicated who needs to pull bands.

Issue	Risk	Category	Action	Test	Complete by	Result	Status
Weight of the product	If the product is too heavy then it could cause injury when (especially) elderly people try to pick it up	B	Weight of various components will need to be researched and also the weight of the materials it could possibly be made from	Test what weight users can comfortably pick up	N/A	Development	Development
Resistance of bands	If too they are hard to pull they could cause muscle injury, but if they are too easy to pull then the product won't be serving its purpose	B	Test therabands with different resistances and measure optimal resistances in development	Development	N/A	During development and model building, the idea that each theraband is a different resistance came up which would mean a range of users could then use the product without fear of injury or boredom	Development
Brightness of light flashes	Could temporarily blind person if too bright and could not perform function properly if too dull	B	Test eyesight of users	See how easy it is for users to see	N/A	Development	Development
Not enough space between two users	If there is not enough space between users then they may knock into each other when performing the movement	C	Research into ergonomics for average arm space	Development	N/A	Development	Development

Position of hinging case	Where is it easiest for the user to open the product	B	Build model to see where model could potentially hinge	Ask for feedback	9/1/2015		
Strength of suction pads	If they're too weak then the user could pull the product off the wall by accident when using thera bands and fall over causing injury but if they are too strong then the product may cause damage to the walls and floors when moving	A	Research different suction pads and their weight capacity	Test different suction pads and research into their weight capacity	Development	Development	Development
Where would therabands attach to	If they are not fix properly they could come lose and break the product	C	Build model to see how the therabands could be fixed in place	Ask for feedback	9/1/2015		