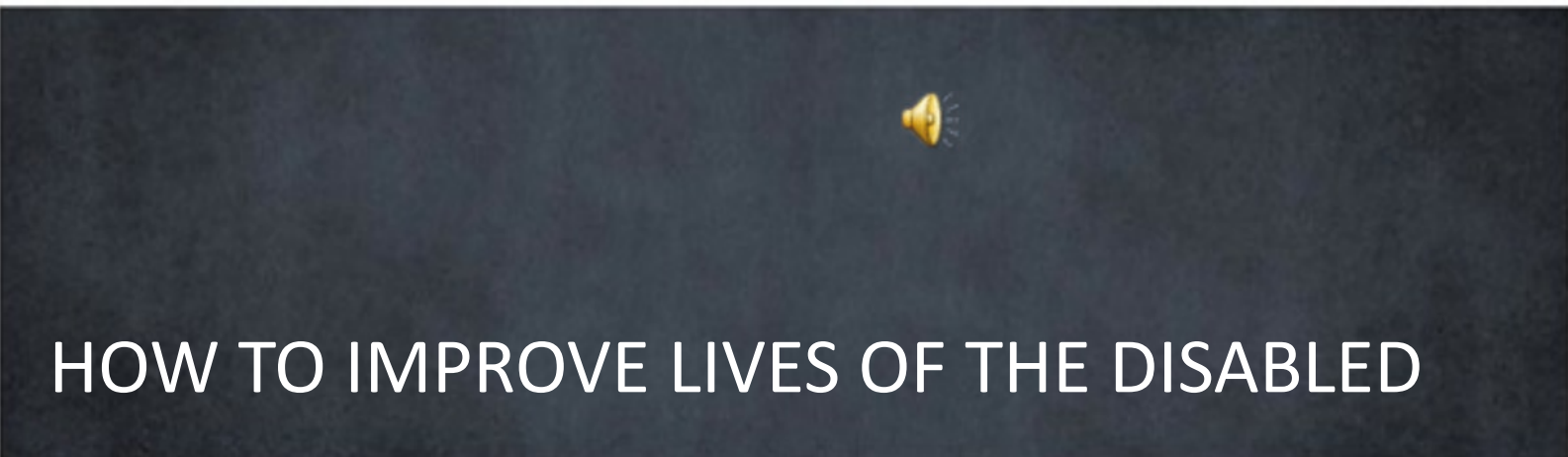




THE KING FAHAD ACADEMY



HOW TO IMPROVE LIVES OF THE DISABLED





SPORTS!

Its also very healthy. 

Sports?



- ✓ So how is sports useful for a player who can't really play?
- ✓ Are you sure it will not cause more problems than it arises?
- ✓ How can we get involved?

So Perhaps Sports really is a good method of improving the lives of the visually impaired



So what did we
which disability found it the hardest
to investigate?

Here comes the sciency bit

Preliminary Experiment



We started by checking the performance of a normal player



Then moved on with deaf disability

Preliminary Experiment



The Blind One really struggled



No Arms!

How did we cause the disabilities?



Cotton balls



Blind Folds



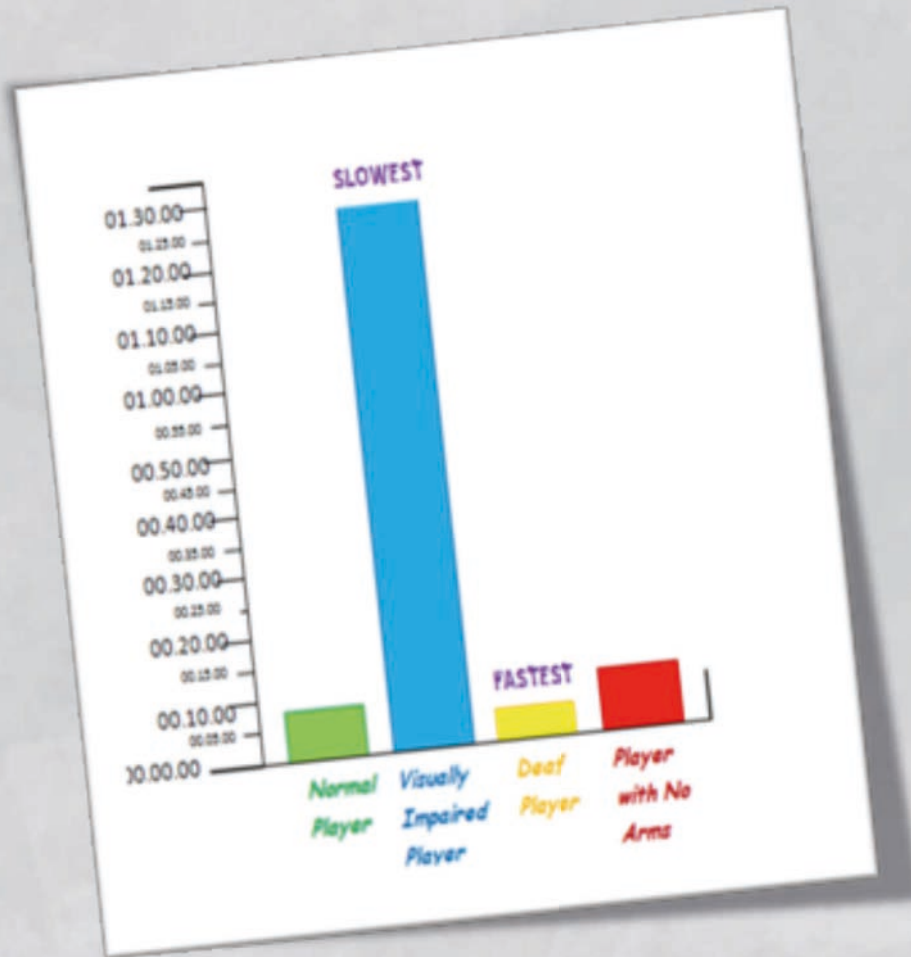
Ropes



So what did we finally come up with?

Our results...


Our Results



Data Collection:

Form of Disability	Time Taken
Normal Player	00:07.74 s
Visually Impaired Player	01:27.36 m [SLOWEST]
Deaf Player	00:06.81 s [FASTEST]
Player with No Arms	00:09.40 s

It doesn't end there...



After the preliminary investigation we discovered that the visually impaired found it most difficult to play sports

So what did we do next?

Who are the Visually Impaired?



So how can we improve their lives?



What we came up with...

You're gonna love this...



HEADSET COMMUNICATION



Headset Investigation

- After coming up with the idea, the headsets needed to be tested
- That's where the second experiment came into practice



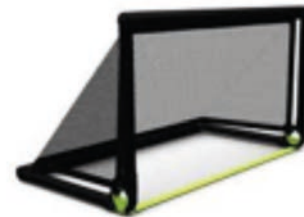
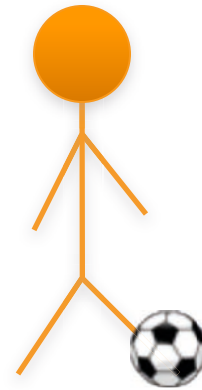


The Echolocation Device

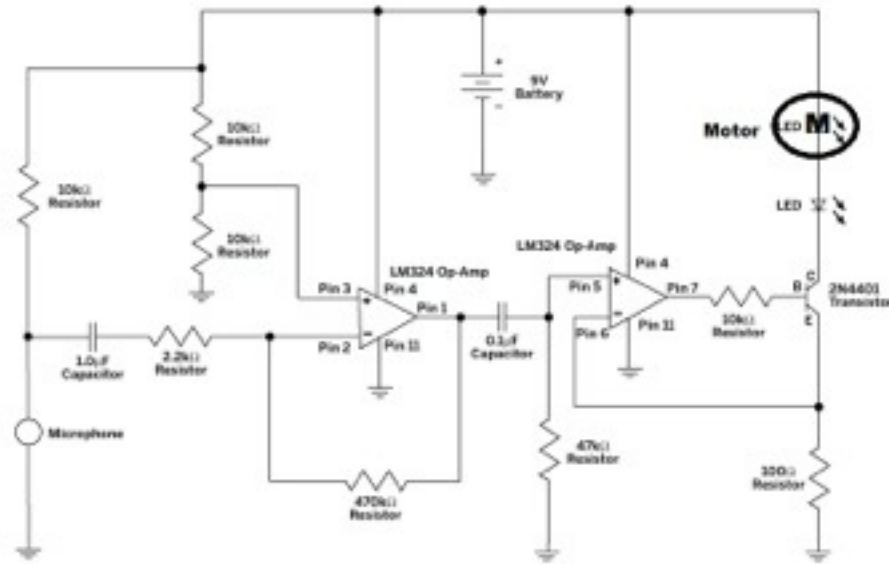


The Echolocation Device

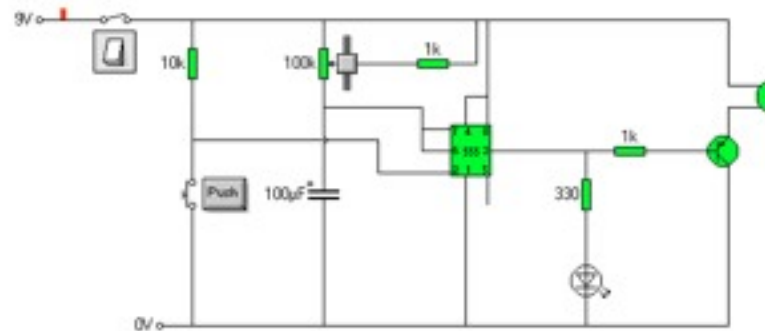
The device emits a very high frequency sound wave which is then picked up by a microphone.



Here comes a video



Wearable Light Organ / Based on a design by qi4querbuif.com, credit querbuif.com



Evaluation

HOW COULD WE HAVE IMPROVED OUR FINDINGS?

Conclusion





AND THAT'S HOW WE CAN
IMPROVE LIVES THROUGH
SPORTS

