

Grabs the pull rope



Pulling on the rope.



Spiderman appears



Spider man climbing up



Spiderman climbs up to the



Letting go of the rope and spider man disappears.





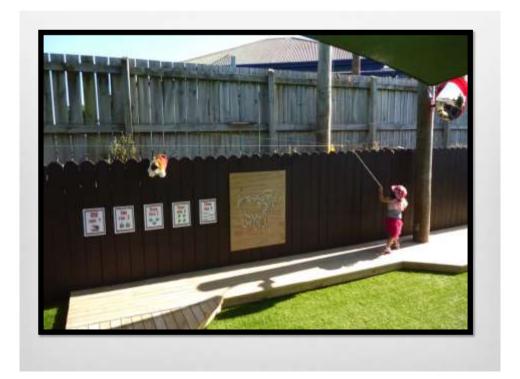
Let go of the rope and the wolf slides down (flying fox)

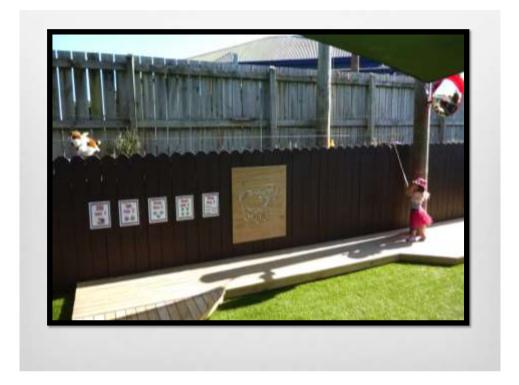


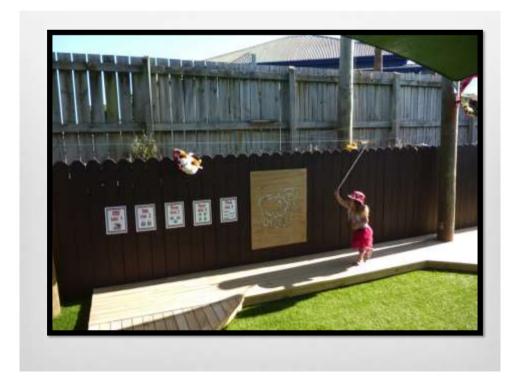


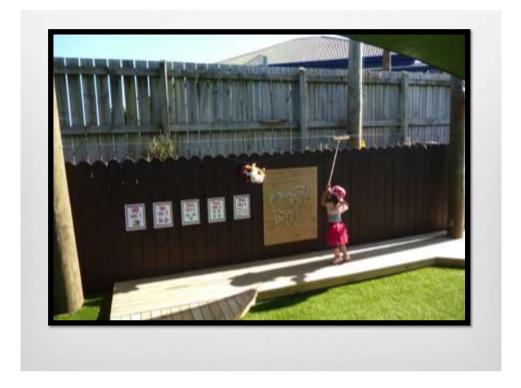




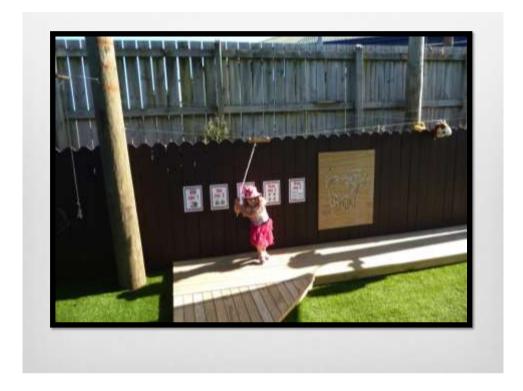


















They added one child at a time

Just to see what happened.











The strange swing

Boys really struggle with this...

Simple reason they don't work as a team. It took about a week before they could use it. Girls took about 30 seconds



Another tyre swing. It took us a hour to make.



Rope bridge

Two children trying to pass each other.



Pulleys get up scaled

Originally was a pulley to move buckets across the sandpit.

However children being resourceful as ever worked out you could swing on it like a flying fox!



Testing!

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I figured if it could hold me, it should be strong enough.

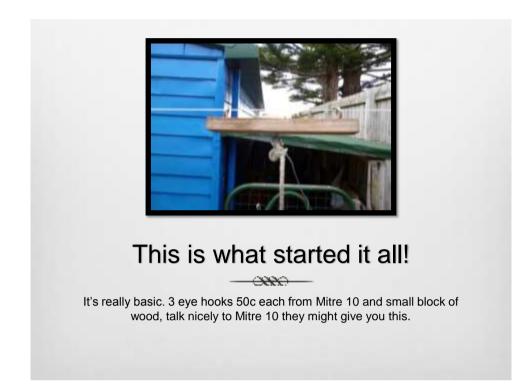


Flying fox

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It's certainly not fast and they aren't very high. They can stand up anywhere by putting their feet down. However it often has a queue of 8 or so children waiting.

This was a total accident. But the kids have had such fun with it over the last 18 months.





What to make them from



The main cord needs to have a breaking strain at least twice the weight of your heaviest child as they pull on then.

Fishing line is great, talk to a fishing shop, they often have leftover 37KG fishing line they throw away. Two lengths gives enough strength and lasts a good 6 months. It also has a bit of stretch. Note of caution, you can't break this stuff with your hands, keep scissors handy. In case something does happen

The lines children pull

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Horizontal, so long as the line doesn't at any point hang low enough to go around the tallest child's neck. You can make them out of almost anything

Diagonal, this is somewhat harder as at the lowest end you have a long length available. I got around this using wool, I just check it breaks easily first. That way if it gets caught, it should break. This is however no substitute for observation.

This has been a focus for the last 2 years, 2-5 years.

We have made many many different things over this time. So many I have actually lost count.

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- The children have learned through experimentation and then shared their knowledge with others.
- They have done some random experiments with the ropes and pulleys over the last 2 years. My personal favourite was accidently making a flying fox. Which is on its 4th or 5th incarnation right now.

What have I personally learned

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- Children don't do what you think they will.
- Children when exploring will do so in groups. They talk about what they have just done and then make hypothesis amongst themselves about what else they could do and or whats going to happen. Their level of critical thinking was impressive.
- Strangely they will take calculated risks and even asked a teacher if there were not 100% sure several times. (when we moved to using ropes to support many children, like rope bridges) the ropes were rated at >1000KG so 20 children would not break them.

Science

Volcano

A volcano with vinegar and baking soda...

It's much cheaper and lasts a whole lot longer if you just bury a hose pipe under the mound. They learn about erosion as well.

Or mix baking powder with citric acid. Then add water with washing up liquid... try it. It also makes sherbet with the addition of a packet of powdered orange drink and icing sugar.

(for sherbet don't add washing up liquid...)



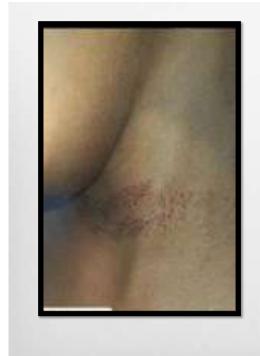


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This slide from England has a 16 meter length of rope wrapped around it.

A little girl on her first day, was left for 20 minutes and died from her injuries.

The teacher has been charged with man slaughter because of gross neglect. The teacher was found not guilty, the owners were however found guilty.



Another rope on a slide

This was caused by a rope on the slide. Child survived.

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Never ever us a rope on/or near a slide, unless it is tethered both ends.

Think can the rope get around a neck, if it can don't do it. (unless it's a skipping rope)



I would like to say thank you to the team at First steps Waiuku.

They are a great and supportive team, without their support I probably would never have done any of this. (this is us collecting 3 trust mark awards at the south Auckland kidicorp conference August 2013.)

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