And all the world is made of maths...

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Where do we find maths in the real world?

http://www.youtube.com/watch?v=der1kQOK0kY

In your wildest dreams...
...but what would it take?

Consider these sentences...
Are we nearly there?
Will we be there soon?
“Bed time,” said Mum.
He’s got more than me!
Round in circles, round in circles, scrub,
scrub, scrub...
...Look behind the couch...
I want the small one...
Wait a minute...
Why use literature to teach maths?

- Children’s literature can motivate students.
- It can connect mathematics to emotions.
- It can provoke interest.
- Children’s literature can provide children with a meaningful context for learning mathematics.

Literature can provide a model, illustrate a concept, pose a problem, and stimulate an investigation.

- It can contribute to the development of the children’s mathematical attitude.
- A well chosen picture book allows access to the mathematics on many levels.
- Researchers found that mathematical language extended into the children’s play.

Consider this statement

Literary picture books do not always take into consideration what is seen in mathematics as an optimal didactic approach. In picture books, it’s the story that counts.

(van den Heuvel-Panhuizen & van den Boogaard, 2008)

Layers of purpose...

The book is written with the express purpose of teaching mathematics.

Story can stand on its own but the connections to mathematics are clear.

Story written with no specific mathematical purpose but there may be connections to mathematics through the text or illustrations.

Sort the books

How can we tell if it’s a good book?

Mathematical integrity
Potential for varied response
An aesthetic dimension
Ethnic, gender and cultural inclusiveness

(Price & Lennon)
How may we use picture books?
To provide a context or model for a mathematical activity
To inspire a creative mathematics experience for children
To pose an interesting problem
To prepare for, develop, explain or review a mathematics concept or skill (Price & Lennon)

Books in www.nzmaths.co.nz

http://www.nzmaths.co.nz/picture-books-mathematical-content


Choose and create
Jims and the Bananaduck
Come Down The Rain

http://www.nzmaths.co.nz/picture-books-mathematical-content

How about...
writing your own story...
...the children writing up their problem solving in a story?
References

