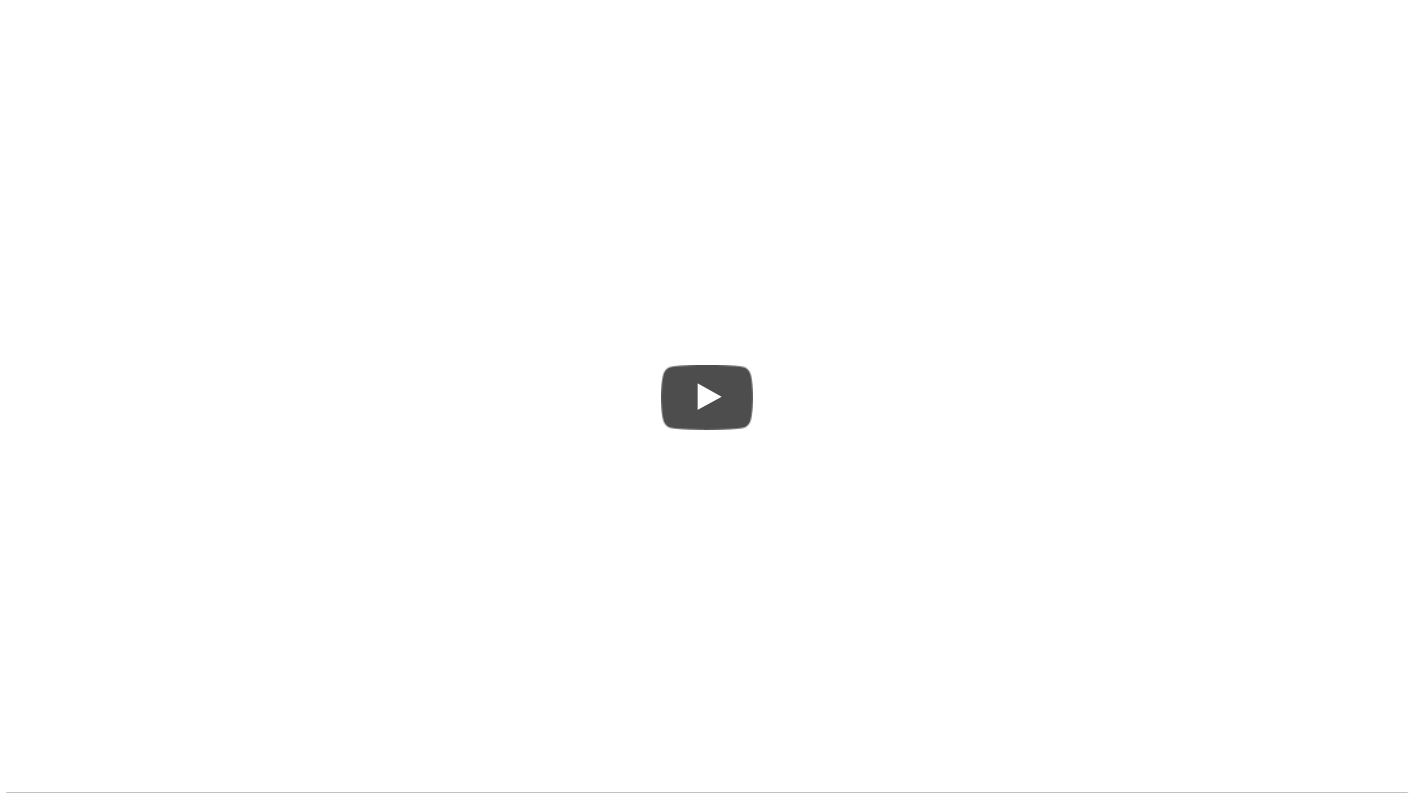




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String shooter-String launcher- physics of toys //// Homemade Science with Bruce Yeany

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The string shooter can launch a 8 foot loop of string that has some very interesting properties while it is in motion. The string is moving quickly enough be be self supporting and does not need to touch another surface for support.

Homemade science is a collection of classroom tested ideas, suggestions, projects, and experiments that I have used in teaching physical science for the Annville-Cleona school district in central Pennsylvania. I am currently in my 38th year of teaching. My intention is to share these ideas with other teachers or anyone who has an interest in science. I have found that designing and building my own equipment has taught me more than any course that I have ever taken. I hope that you consider trying this for yourself.. I also share and show some of these ideas at workshops, science conferences, or inservice presentations. Videos are shot with a Casio EXH20.

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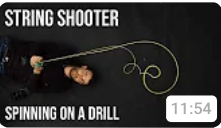
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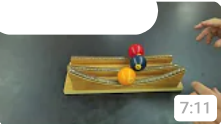
String Shooter
Scorch Works
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This String Shooter Is SO Weird
Steve Mould
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Fan Cart - Blowing into your own Sail- part 1 // Homemade Science with Bruce Yeany
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Don't String Me Along, Tim (HD reshoot)
Grand Illusions
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10 COOL TRICKS with ZipString!
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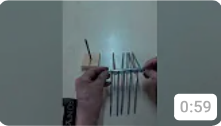
Slow Moving Waves in Rope - Physics of toys // Homemade Science with Bruce Yeany
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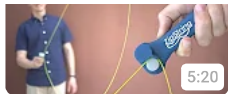


The Real Reason a String Launcher Works
The Action Lab
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Chaotic pendulum's entertaining behavior, // Homemade Science with Bruce Yeany
Homemade Science with Bruce Yeany
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ZipString
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How Does The Ruler Trick Work?

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How to Make String Shooter at Home | DIY String Shooter | Zip string toy

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3 Amazing Magnetic Accelerators | Magnetic Games

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Spinning bottles--Simple centrifuge // Homemade Science with Bruce Yeany

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Make your own Newton's Disc | DIY Science Toys | Science

Unleash Sci
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Trebuchet Throwing Balls of Fire ///. Homemade Science with Bruce Yeany

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Do they REALLY Work??? Perpetual motion machine - Overbalanced Chain Experiment

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DIY Pandit
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Le nouvel objet le plus satisfaisant du monde ! (ZipString)

Dr Nozman
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Ithaca College Physics
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On CRACK 14:08



9 Awesome Science Tricks Using Static Electricity!

brusspup

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5:39

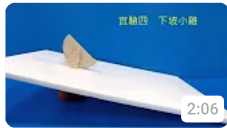


Seeing AC versus DC light/// Homemade Science with Bruce Yeany

Homemade Science with Bruce Yeany

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NTCU SciGame Lab: 步行下坡 Ramp Walker

stevehsu089

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DIY String Shooter | How to make a String Shooter | DIY Zip string

Penguin DIY

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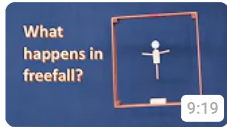


Rollback toy building instructions... Great STEM activity

Homemade Science with Bruce Yeany

4K views • 4 months ago

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Freefall, physics of elevators and other falling objects demonstrating weightlessness

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6.5K views • 3 months ago

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Homemade speaker made with a toy motor /// Homemade Science with Bruce Yeany

Homemade Science with Bruce Yeany

886K views • 10 years ago

4:48



Laser + mirror + sound

Steve Mould

2.3M views • 6 years ago

9:56



How To Make A String Shooter From PVC Pipe At Home | Zip String Shooter DIY | Mini String Shooter

Mini ideas

31K views • 2 years ago

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Magnetism & Gravity. Perpetual motion machine. 永久機関

veproject1

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2:01

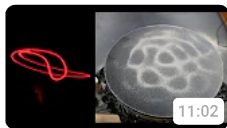


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Mark Rober

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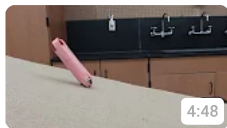


Sound Visualizer & Chladni Patterns Formed on a Plastic Bucket // Homemade Science with Bruce Yeany

Homemade Science with Bruce Yeany

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11:02



Toy Physics--- tumbling toy -part 2 /// Homemade Science with Bruce Yeany

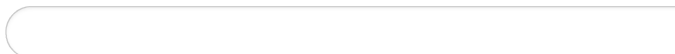
Homemade Science with Bruce Yeany

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Pendulum wave ペンデュラムウェーブ

veproject1

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Homemade Science with Bruce Yeany
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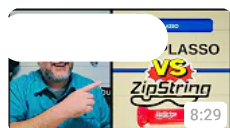
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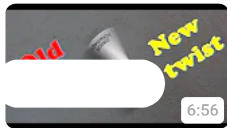
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Overbalanced wheel with corner-shaped weights

vproject1 ✓
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2:20



Spinning tube trick- Cool variations

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7.6K views • 6 months ago

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How To Make String Shooter At Home

Technical Ninja ✓
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vsr-paradise
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TheRichest ✓
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vproject1 ✓
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Math and Science
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Fun Science ✓

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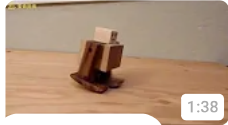
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mr3dp

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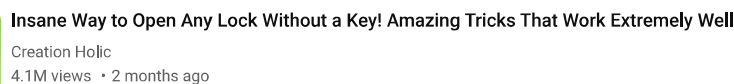
The Action Lab ✓

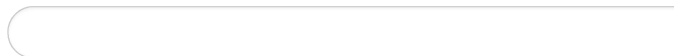
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This is the coolest gadget!... LOOP LASSO (a DEMO & REVIEW)

FUTURESPEACE COLLECTIVE

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Joel Creates ✓

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Creation Holic

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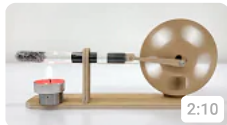
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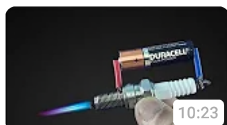
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Amazing Smart

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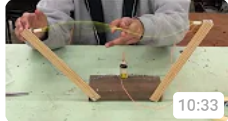
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xkcd's What If?

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**Easiest Way -- How To You Make A String Launcher At Home** 😊😊😊

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Terry Baldrige

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Theodore Erski

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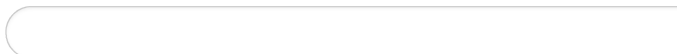
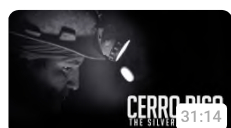
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Breaking Taps

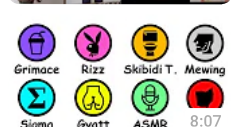
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@theCodyReeder

✓ 7 years ago (edited)

Now we need to build a realllly big one that goes into space!

1.3K

Reply

50 replies
- 

@mglenadel

7 years ago

Build two of these, mount them one pointing to the left, one to the right, on a plate strapped to your back: Fairy wings. Add glow in the dark paint and high intensity UV LEDs pointed at the string close to the shooter's wheels: Halloween costume.

119

Reply

2 replies
- 

@jerryjrowe

7 years ago

This was really impressive. I would like to see you use a dye or some other color indicator on the string so we can see just how fast the string itself is moving compared to the wobbles you put in the string by moving it.

58

Reply
- 

@tarassu

7 years ago

paint half of string red to see the speed.

67

Reply

7 replies
- 

@NotMe35971

7 years ago

Please someone build bigger version and instead of string use extended chainsaw chain. It would be terrifying tool.

74

Reply

6 replies
- 

@shottysteve

✓ 2 years ago

so this is string theory...

27

Reply

2 replies
- 

@antonnpn9063

7 years ago

Light it on fire?

195

Reply

4 replies

[Sign in](#) 182 [Reply](#)[4 replies](#)**@petertrast** 2 years ago

Steve Mould sent me :) Simple design that is easy to duplicate!

 3 [Reply](#)**@1lucavb** 7 years ago

This looks so unreal!

 48 [Reply](#)**@jacobgiron2858** 6 years ago

It's awesome to see someone this passionate about spreading knowledge and making it interesting for anyone to enjoy...thank you for being you

 1 [Reply](#)**@noahpotter6844** 5 years ago

I bet you're an amazing teacher, you have a great ability to demonstrate science in a way that's fun and interesting. I'm sure you've made your mark on the youth

[Reply](#)**@h4pee** 7 years ago

When your doctor says you got 4 minutes left to live

 68 [Reply](#)[3 replies](#)**@fryncyaryorvjink2140** 7 years ago

this is like a never ending version of dropping thin chain out of a cup

 6 [Reply](#)**@5gameguy** 7 years ago

I really enjoy the Content you are putting out on your channel. I'm currently enrolled in my second level physics course at my state university. I really wish we had access to these type of demonstrations during lecture! It would make the study of physics much more interesting.

Wave motion, inertia, angular properties, momentum, and projectile motion can all be taught by this device.

Great work, keep it up. I'll show this to my professor and see if he likes your channel.

[Reply](#)**@billcosbyeatsbabies9947** 7 years ago

No video needed. Intro blew my mind already. Immediately liked, subscribed, and even hit the little bell icon (which makes the youtube algorithm feel all warm & fuzzy from what i hear!)

[Reply](#)**@lohphat** 2 years ago

Shout out from Steve Mould's channel!

 4 [Reply](#)**@rogeronslow1498** 7 years ago

Bruce

I wonder if you could modulate the wheel speed (or elliptical wheels) to create weird shapes of the loops. You may be able to generate standing waves on the loop like the oscillations of electrons in the Bohr atomic model. Great video.

 6 [Reply](#)**@mikaelabowen5781** 7 years ago

This is really fascinating. I so wish my physics teacher had been as dynamic as you!

I'd love to see the string with a section painted a different colour so the speed of the string against the speed of the wave could be more easily compared. Also does a ribbon behave the same as a string?

[Reply](#)**@dustindhull** 7 years ago

Mr. Yeany. As one of your former students, I must say your science still impresses the Heck out of me. I'm glad this showed up in my recommended videos.

[Reply](#)

[Sign in](#)**@flashpointwhite** 7 years ago

Where do you get the string that's in a loop, or do you make it? In my mind, it wouldn't work very well with a knot in it.

 18 [Reply](#) • [2 replies](#)**@hexadecimal5236** 7 years ago

There's gotta be a way of doing this at a much larger scale...

 102 [Reply](#) [17 replies](#)**@mickeyfilmer5551** 2 years ago

Steve Mould sent me here, and I am very grateful to him-subscribed and already hit the bell!

 2 [Reply](#) • [1 reply](#)**@light-master** 7 years ago

a teacher like you that give hope to our world and encourage more students to explore the science of our universe. Thank you for being being a great and engaging teacher.

[Reply](#) • [1 reply](#)**@salmjak** 7 years ago

Ah, so this is the famous string theory I keep hearing about.

 5 [Reply](#)**@b3ver294** 7 years ago

is this "string theory"?

 35 [Reply](#) • [5 replies](#)**@dalesweigert9905** 6 years ago

as a teacher you really inspired me and my love for all things science. we need more people like you Mr. Yeany

[Reply](#) • [1 reply](#)**@rhallett34** 7 years ago

this is my new favorite youtube channel! first video and an instant sub!

[Reply](#) • [1 reply](#)**@JanTuts** 7 years ago

I want to build one! :D

Also, I want to feed a whole deck of cards through it! If you can find the sweet-spot, it will fling the cards like a card-thrower would, and you have yourself a card machine gun! XD

 5 [Reply](#)**@trevor2680** 7 years ago

I wanna build one

 38 [Reply](#)**@KitBetts-Masters** 7 years ago

I really am loving your channel!
You have such great ideas!

[Reply](#)

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Here I am now, digging on this vid. thanks, for taking me back.

1 [Reply](#)

• [1 reply](#)



@WhackSnap 7 years ago

i wish you were my science teacher

18 [Reply](#)

[2 replies](#)



@brianskinner5711 7 years ago

Wonderful as always! Any chance you would show how to make one these so to allow us to pass on the magic of science?

6 [Reply](#)

• [8 replies](#)



@DashzRight 7 years ago

Ill do one of those this week, amazing idea Bruce, absolutly loved it.

[Reply](#)



@DavidBennett4ever 7 years ago

Awesome video! I look forward to making one for my boys to play with. I can tell you make school amazing for your students. Thank you so much for that.

[Reply](#)



@BubuSnow93 7 years ago

Time to build a flying chainsaw

11 [Reply](#)



@l.y.g.3515 7 years ago

@Bruce Yeany Awesome Video! Thank you so much for sharing! Might you be able to help understand something? That wave movement at the top I understand, but why does it move out at the bottom? How does the force applied move backwards from the direction that the string itself is travelling?

3 [Reply](#)

• [2 replies](#)



@Ogaitnas900 7 years ago

You really have something here, I love it. It could be used in music performances or something, it really catches the eye and has many possibilities.

1 [Reply](#)



@johnnylloodte3415 7 years ago

this is how magnet , electric, and gravitational waves.. along with every other wave travels thru space..well done..doc johnny

1 [Reply](#)



@monkay92 7 years ago

you should try shooting paper airplanes! would be lots of fun and can test different styles of paper planes and airfoil!

8 [Reply](#)

• [2 replies](#)



@MoepToefQuiik 7 years ago

Could you upload a short video with a little red dot on the rope, so we can get a gist of how fast it is actually spinning/moving?

3 [Reply](#)

• [4 replies](#)



@zedex1226 7 years ago

I keep explaining to friends how a space escalator would work and I refer to these hand held toys from the 90's and nobody has ever heard of them. thanks, now I have a vid to show them.

[Reply](#)

• [1 reply](#)

[Sign in](#) [Reply](#)**@Korosensei52** 7 years ago

more power and a metal string and we have a sword.

 11 [Reply](#)[3 replies](#)**@pepe6666** 7 years ago

what on earth. if the string speed is 25mph, how come the wave propagation is so much slower? amazing.

 7 [Reply](#)[2 replies](#)**@WonderMagician** 2 years ago

Thank you for sharing your fun and amazing invention!

[Reply](#)**@andthesunsets** 7 years ago

y favorite teacher now

[Reply](#)**@coder0xff** 7 years ago

What is the mechanism for perturbations on the top bring mirrored on the bottom?

 24 [Reply](#)[23 replies](#)**@FallenAngel8742** 7 years ago[3:35](#) where'd the second to last popsicle stick Go? 13 [Reply](#)[1 reply](#)**@cherriedquat** 7 years ago

Very nice. It would have been even nicer if it would've answered a few inevitable questions:

* Why is the perturbation on the outward part mirrored on the inward part?

* Are the waves moving at the same speed as the string? (I guess no, because the waves are moving from the engine towards the end of the loop on both sides.)

So what is the speed of the waves in the string, and how is it calculated?...

[Read more](#) 1 [Reply](#)**@dogdrone5186** 6 years ago

Thanks for sharing all your experiments!

[Reply](#)**@LuRybz** 7 years ago

What would happen if you put a rubberband string instead of a simple string?

 7 [Reply](#)[1 reply](#)**@artconnolly9519** 7 years ago

try cocktail tooth picks

 9 [Reply](#)**@ViniSocramSaint** 7 years ago

Man...

You gave me the biggest inspirational clue for making fire-ish movements on 3D simulations!

Hella thanks

[Reply](#)[1 reply](#)

[Sign in](#)[Reply](#)

@bartnieuwendijk1024 7 years ago
anyone noticed video lengt?



11

[Reply](#)[1 reply](#)

@serphystus 7 years ago (edited)
You said "homemade" science at the beginning but u r in a lab... u destroyed my life.

...

[Read more](#)

8

[Reply](#)[3 replies](#)

@jackcooper3193 6 years ago
r videos are awesome! Keep it up!

[Reply](#)

@LiLi-or2gm 7 years ago
Well gee, now I know exactly what I'm making the grandkids for Christmas- thanks for the inspiration, Bruce! BTW, I just love your videos- so much science-y fun! :D

[Reply](#)[1 reply](#)

@nearo6433 3 years ago
У кого это появилось в рекомендациях после Крастера?



7

[Reply](#)[1 reply](#)

@henryrollins9177 7 years ago
i hope those batteries are rechargeable ones.



10

[Reply](#)[7 replies](#)

@jfalbo 7 years ago
Great demo. And I can tell you love your job.

[Reply](#)[1 reply](#)

@naderfawzy5958 7 years ago
so coooooool
I didn't see something as good as this for along time on you tube

[Reply](#)

@buntys hukla2625 2 years ago
Who is here after Steve moulds video?



6

[Reply](#)[1 reply](#)

@stylis666 7 years ago
It's not science until you make some predictions and test the hypotheses! Why does the wave not propagate as fast as the string does and why don't the waves go all the way around? Would they go all the way around if the curve at the far side would be less tight?



10

[Reply](#)[3 replies](#)