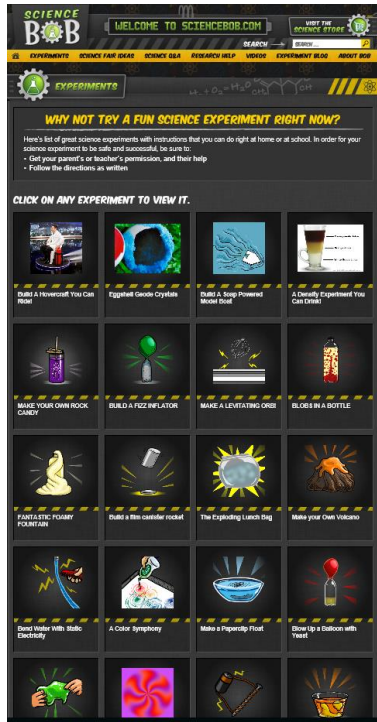
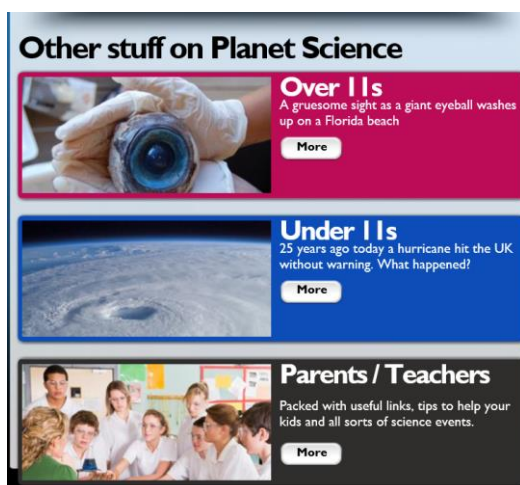


For those of you who enjoy learning more about science at home, the following websites have great resources:

<https://sciencebob.com>



<http://www.planet-science.com>




<https://www.jamesdysonfoundation.co.uk>

CHALLENGE CARDS

## ARE YOU READY FOR A CHALLENGE?

Can you skewer a balloon without popping it? Coat a nail in copper? What happens when you plug a clock into a potato?

[DOWNLOAD CHALLENGE CARDS](#)



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Dyson engineers have designed these challenges specifically for children. Ideal for home or in the classroom, they encourage inquisitive young minds to get excited about engineering.

CHALLENGE 01

### BALLOON CAR RACE

Make and race a balloon-powered car using just a balloon, a plastic cup, straw, thread and rubber bands.

Watch the video to see Dyson engineers suspending their balloon cars to see if they can win the race.




<https://www.bbc.co.uk/bitesize/subjects/z2pfb9q>

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- <http://www.physics.org/marvinandmilo.asp>

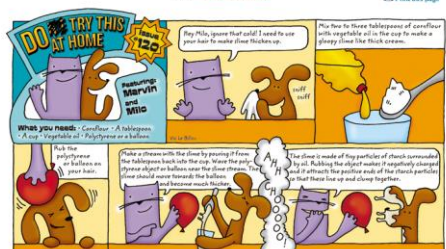
**physics.org** IOP Institute of Physics  
Your guide to physics on the web

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**Marvin and Milo**  
Explore physics the exciting way, by trying out a simple and fun experiment. This month, Electric Slime. Don't forget to check back next month for the next edition...

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**DO IT TRY THIS AT HOME**

**Experiment: MARVIN and MILO**

**What you need:** Candles, A balloon, A cup, Vegetable oil, Polythene or a balloon.

1. Cut the polythene or balloon on a balloon on your hair.

2. Make a stream with the straw by blowing it from the balloon back into the cup. When the polythene sheet or balloon over the straw then the flow should move towards the balloon and become much thicker.

3. Play this, square that could be used to use your hair to make your hair dry.

4. Mix the vegetable oil with the balloon.

5. The slime is made of the particles of starch surrounded by oil. Rubbing the sheet makes it negatively charged and it attracts the positive ends of the starch particles. That's them line up and cling together.