

Dear parent/carer,

I hope you're well and that your child is interested in joining the science club this Spring term 2021 at Grasmere Primary School.

It will be for children attending **year 3 and 4** and will take place on **Thursdays from 3.30 to 4.30pm**. Please note that the order in which the experiments take place may change.

The teacher will meet the children in the Year 3 classroom and will give them a few minutes to eat, drink and use the toilet before the class starts.

We always recommend that the parents provide a **light snack** to eat before the class, to improve the children's concentration. Please avoid sugary treats and any food that may contain nuts and remember that the children are not allowed to share any food.

The teacher will take the children to the main playground where they will be **collected by the parents at 4.30pm**. Please make sure you collect your children on time, as the teacher will have to tidy up the room after that and leave the school on time.

The fees for this term are the same as before, **£9.5** per child per class (**£8.5** per sibling if they are both attending the club at the same time). There will be 11 classes for this club, so the total will be **£104.5 (£93.5 per sibling)**.

The fees will be requested to be paid in advance, but only when all the registrations are confirmed. The maximum number of children attending it will be 12, as before. The children will work individually, so not material will be shared this term.

If I don't have your contact yet, **please email me so that I can send you your invoice and/or payment receipt.**

If you have any other questions, please don't hesitate in contacting me at: info@kidswithbrains.co.uk.

Thank you very much,

Ana Catarina Pires, founder of Kids with Brains.

Science classes during Spring term 2021 at Grasmere Layward Primary School, Wednesdays, from 3.30 to 4.30pm for Years 3 and 4

| Classes | Dates | Experiments |
|----------------|--------------|---|
| 1 | 6 January | Bouncy balls: the children will make their own bouncy balls (to take home) while learning more about potential and kinetic energy and other forms of energy. |
| 2 | 13 January | Catapults: the children will build their own catapults (to take home) by using different materials and by the end of the class they will launch some ping pong balls and other types of balls, while trying to understand more about how forces and angles will affect the speed and the distance of their projectiles |
| 3 | 20 January | Slingshots: The children will make their own cannon balls/slingshots (to take home) and will practice with different kinds of balls to play a “real life” Angry birds game with them |
| 4 | 27 January | Engineering and Architecture: the children will build 2D and 3D shapes made with sweets and toothpicks, while understanding more about the use of triangles can make more stable shapes. They can take home all the objects they’ve made during the class. |
| 5 | 3 February | Secret messages: The children will write two types of secret messages, some with “Frixion pens” and others with UV pens (both messages and pens to be taken home) |
| HALF TERM | | |
| 6 | 10 February | Static electricity: the children will make experiments with static electricity by playing with balloons and testing what other objects/materials will they attract or repel and why does that happen |
| 7 | 24 February | Electricity and squishy circuits: the children will be given very simple notions of circuits while playing with conductive and insulating dough. They will take home their squishy circuits and some extra material to repeat the experiments with parents’ supervision. |
| 8 | 3 March | Magnets: the children will play with several magnets of different sizes, shapes and “strength” to test what metals and objects are attracted to them and |

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| | | why. |
| 9 | 10 March | Magnetic wands: Each child will build and decorate its own wand, that will have a strong magnet inside (neodymium magnet). They will take them home to play with it. |
| 10 | 17 March | Experiments with eggs: the children will learn how to identify if an egg comes from a free range chicken or caged hen, how to know if an egg is good or bad to eat, how to make an egg float in water and how to have a naked, bouncy egg (the latter to take home) |
| 11 | 24 March | More experiments with eggs: the children will perform different experiments with eggs and learn how to separate the egg yolk from the egg white using a clever technique, how to prepare eggs to be painted for Easter, how many books can we stand on egg shells and how to get an egg inside a bottle. They may also walk on eggs if there is enough time. |