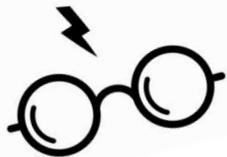


Children's University Club Challenge:

Harry Potter



We've excited to bring you our latest weekend CU Home Learning Challenge...all about the wizarding world of Harry Potter! Yes, there are four challenges for you to complete - each one earning a CU credit.



So, Children's University students, are you ready for wizard school?



Part 1: Arithmancy

Did you know this is REAL and NOT a new Hogwarts lesson something created by J.K. Rowling? We certainly didn't! Have a go at decoding a message, then use the arithmancy code to write your own message - can your family work it out?

Part 2: Magic Wands

Every witch or wizard needs a magic wand, so here's a challenge for you to get your creative cloaks on and make your own!



Part 3: Spells

Harry, Ron, Hermione and their Hogwarts friends are pretty good at learning new spells (well, some are better than others!). Now it's your turn - can you master your own fizzing cauldron creation?

Part 4: Invisible Ink

Here's your chance to write a secret message that no-one else can see...for now!



You can collect **up to 4 CU credits** (one per activity) for completing this task. To claim your credits, please complete and return your Reflection Diary for Club Challenges to your school with copies of some of your work.



CU Home Learning Challenge:

Harry Potter

Part 1: Arithmancy

In more than a few Harry Potter stories, we hear about Harry, Ron, Hermione and their friends going to Arithmancy lessons but did you know that arithmancy is not just something that J.K. Rowling made up in the Harry Potter stories?

The term arithmancy comes from two Greek words - 'Arithmos' means number and 'Manteia' means divination (predicting the future through magic). Arithmancy was developed by ancient Greeks during war times to try to predict and maybe even change the outcome of a battle! Do you think this would have worked? Other forms of Arithmancy were also used by the Chaldeans, the Pythagoreans and the Kabbalah.

Arithmancy class was Hermione Granger's favourite in the Harry Potter books, Order of the Phoenix & The Prisoner of Azkaban, so we thought it would be good for you to try too!



You will need:

- Arithmancy alphabet attached
- Pen or pencil
- Some paper

Step 1: Using the arithmancy code, can you uncover the secret message? Find the letter for each number and write it below to reveal the code!

9,1 4,13,3,1 22,13,10 5,25,1 1,18,17,13,22,15,18,20 13,10,25 11,10
11,4,5,16,16,1,18,20,1,21 . 9,1,16,16 23,13,18,1 8,13,25
9,13,25,7,15,18,20 13,10,2 2,4,15,21 6,1,21,21,5,20,1 .

Step 2: Using the arithmancy code, can you work out a secret message for someone else in your house to uncover?

Step 3: Work out the arithmancy code for your name (first or full name - it's up to you!). Then add all the numbers up to give you your very own 'personality number'!



1 CU Credit is available for this challenge.





Arithmancy Codes



<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i</i>
5	19	11	23	1	8	20	4	15
<i>j</i>	<i>k</i>	<i>l</i>	<i>m</i>	<i>n</i>	<i>o</i>	<i>p</i>	<i>q</i>	<i>r</i>
17	7	16	6	18	13	3	26	25
<i>s</i>	<i>t</i>	<i>u</i>	<i>v</i>	<i>w</i>	<i>x</i>	<i>y</i>	<i>z</i>	
21	2	10	24	9	12	22	14	



Use this chart with steps 1, 2 and 3
in Part 1 of the challenge!



Children's University

Club Challenge

Harry Potter



Part 2: Make your own magic wand!

All witches and wizards need their own magic wand to be able to cast their spells. Remember, in Harry Potter, 'the wand chooses the wizard', so make sure your wand chooses you too! It might not be the first stick you find that you choose to make into your wand. Have a good look around - your wand will make sure you find it!

You will need:

- a stick about the length of your arm between your wrist and elbow (could you find one on your daily walk?)
- PVA (normal white school) glue and glue spreader
- newspaper or something to cover the work surface with
- bowl or pot
- things to decorate your wand with...whatever you have will be great! Paint (any colours), glitter, sequins, feathers, wool, string, paper, card
- scissors



(could you

great! Paint

Step 1: On your daily walk, have a look round for the perfect stick to make into your wand. It needs to be the right length, quite straight (you don't want your spells going off at the wrong angle!), and not too thick or thin (you need the magic to be able to travel through it OK). It needs to be dry too. Remember to wash your hands after you've picked up sticks or touched other objects outside. Decide which end you will hold and which end the magic will come out of (this is an important decision so you don't cast spells on yourself by accident!).

Step 2: Pour a little glue into a pot and add in a little paint if you have some. Mix it through carefully. Take your wand and dip it in the glue mixture. You might want to spread the glue a little up the wand (no more than a quarter of the way up though).

Step 3: After a few minutes, dip your glue end into some glitter and roll it around (you might need to sprinkle it further up the glue so it's all covered). Leave your wand to dry somewhere. While the glue is drying, decide how else you will decorate your wand. You might want to attach a feather to the end, or maybe some strands of wool or a shape you've cut from paper or card? It's your wand remember so it's up to you how you decorate it. Attach your decorations to the end of your wand. You might even want to wind some wool or thread round and down your wand to decorate it?

Step 4: Leave your wand to dry. While you're waiting, can you think of a magic spell that you could cast? Here's some from the Harry Potter stories but could you think of your own words or phrases? What will happen if your spell works successfully?

Accio - makes something fly to you

Alohomora - unlocks things

Lumos - casts a light so you can see things better

Reducio - makes something shrink down to become smaller

Scourgify - cleans up

Wingardium Leviosa - makes things float and fly



Children's University Club Challenge

Harry Potter

Part 3: Magic Spells!

Harry, Ron, Hermione and their friends learned how to make lots of spell potions by mixing ingredients in their cauldrons. Some were more successful than others! We'd like you to make our Fizzing Cauldron Creation!



You will need:

- Small containers
- Dessert spoons
- Bicarbonate of Soda (Baking Powder)
- Water
- Food colouring
- Vinegar
- Glitter and washing up liquid - optional



Before you start, think of a spell you'd like to create? What will the spell do? What words will you need to say to cast your spell? (you might want to practice them or write them down so you don't forget them!) Ask an adult to help with this spell. You might want to do it outside in case your spell spills out?!

Step 1: Put one dessert spoon of baking soda into a container.

Step 2: Measure out around 100ml of water in another container.

Step 3: Add a few drops of your food colouring to your water (and glitter if you want to) and stir.

Step 4: Add your coloured water to your baking soda and mix.

Step 5: Measure a few spoons of vinegar into a clean container. Then time to cast your spell...

Step 6: As you finish casting your spell, add the vinegar to your baking soda and water mixture and what the magic begin!

Extra steps:

1. Try adding a little washing up liquid to your water before the vinegar - you should find this thickens up the bubbles!
2. Experiment with different colours and amounts of bicarbonate of soda and vinegar. What changes do you notice?

1 CU Credit is available for this challenge.

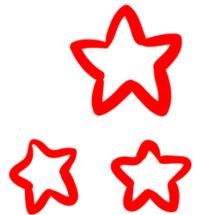


Children's University Club Challenge

Harry Potter

Part 4: Invisible Ink

Harry Potter had the Marauder's Map which looked like a plain piece of parchment paper to anyone else - but to him, it revealed a map of Hogwarts and the location of the other pupils and teachers. We'd like you to create your very own disappearing ink so here's how...



You will need:

- Plain white paper
- Half a lemon
- Spoon
- Bowl
- Water
- Cotton bud
- Lamp or other light bulb (a torch?)

Step 1: Think about what secret message you want to write!

Step 2: Squeeze some lemon juice into a bowl and add a few drops of water. Mix it together with the spoon.

Step 3: Dip the cotton bud into the liquid and then write out your message on the paper. You might need to dip your cotton bud in again and again if you need more liquid.

Step 4: Leave your paper to dry out completely (not in the sun though!)

Step 5: When you want to reveal your secret message, shine a strong light over the words to heat the paper slightly. You could hold it near a lamp bulb or shine a strong torch near it. The lemon juice will 'oxidise' when it is burned, turning orange in colour, so your message will appear...just like magic!

Step 6: Perhaps you could experiment with other liquids - do they work as well? You could try orange juice, honey, milk, onion juice or even white vinegar. Which works best?

