



EMPIRIBOX
Primary School Science

CELEBRATE THE SUPERHEROES OF SCIENCE

**GRAB YOUR CREATIVE CAPS & JOIN THE
NATIONWIDE KS1 & KS2 SCIENCE COMPETITION**



TEACHER GUIDE

The COVID-19 virus has put into context how science education is essential for everyday life. In the past year, it has become overwhelmingly clear the importance of science within society and how much we take our scientists for granted.

As we come close to the end of this academic year we wanted to celebrate the unsung heroes of science with a little competition.

Get your pupils to reflect on all things science that they've learnt this past year, sprinkle in a dash of creative fun and enter our Superheroes of Science competition!

ABOUT THE COMPETITION

As you may have seen here at Empiribox we have three colourful scientist characters that represent different areas of our KS1/KS2 science programmes:



Billy the Biologist



Ciara the Chemist



Phoebe the Physicist

To celebrate the heroes of science we need your pupils' innovative and creative minds to design our scientists' alter egos (or more commonly known as scientist superheroes).

It's also a great cross-curricular activity to refresh your pupils' memories and reflect on all the exciting science topics they've learnt this year or maybe even a topic you're teaching at the moment. Set it as a classroom activity or a fun half-term homework task!

HOW DOES IT WORK?

- 1** Print the **character worksheets**
- 2** Read the character cards for each of our scientists for some **guidance and inspiration**
- 3** Invite your pupils to put on their creative caps and use their imagination to **design a superhero alter ego** that best represents each character in their respective science field
- 4** Submit your pupils' entries by **18th June** (*see the 'how to enter' section for the full details*)
- 5** Tune into our **LIVE science lesson** on **13th July** at where we'll be announcing the winners (*we'll email you the details in the next couple of days so keep an eye on your inbox*)

ENTER WITH A CHANCE TO WIN...

The winning superhero characters for each of our three scientists will be brought to life with the help of our digital team. That's right - your pupils can watch as their creative designs are made into real-life digital characters who will be **featured on the Empiribox website, videos, lessons, and more!**

The winning pupils will also receive a **certificate**, a copy of their very own digital character and their school will receive a **FREE box of science goodies to enjoy with the whole class!**

We'll be announcing the three winners on 13th June at our end-of-term LIVE science lesson. So be sure to grab your lab coats, tune in and join Empiribox scientists Chris and Sarah for a hands-on, jammed-packed practical science experience and to discover the winners.



TOP TIP

The Empiribox judges will be looking for designs full of creativity, personal flair and pupils' ability to demonstrate understanding of science topics and relating those to each of the characters in their respective fields.

HOW TO ENTER

Entries close on 18th June 2021 at 9pm.

Winners will be announced during our LIVE Science lesson on 13th July 2021.

Each pupil can submit up to one design per character meaning you can get your class to design a superhero character for all three of our scientists or just choose 1 or 2 it's completely up to you.

To submit entries please scan and email your pupils' colourful designs to **info@empiribox.org** with the following details:

Subject line: Superhero Scientist Competition Entry

Within the email: Please include your name, school name, school address and postcode so we can send the winners their celebration pack.

Attach the designs: Please attach your pupils' designs in either a JPEG, PNG, PDF, word document or ZIP folder format. Make sure your pupils have put their own name at the top of their entry/entries.

Need help? If you have any questions or issues with submitting your entries please contact our customer service team on **info@empiribox.org** or **01865 670 067** and they will be able to assist with any enquiries you may have.

HELPFUL TIPS

- 1 Recap & mind map** - Before getting your pupils to start designing their superhero character, it's a great opportunity to refresh your pupils of some of the science lessons they've done this year and how each of the topics relates to the characters and their science specialism. For example, sound is a physics topic so Phoebe the Physicists' superpower could be that she has supersonic hearing. Why not get pupils to create a mind map for biology, chemistry and physics to help get those creative juices flowing?
- 2 Think outside of the box** - All good scientists need a way of observing and recording what they see, do and discover. As well as designing their characters, why not get pupils to think about what accessories their characters might need to help them make observations, measure, collect and record data?
- 3 Survival of the fittest** - Just like animals (and plants!) are awesome at adapting to their environment in order to survive and thrive - so too are the Empiribox Super Science characters. Invite pupils to think about how the characters might have adapted to make them amazing at what they teach. For example, Phoebe the Physicists' might have magnetic fingers that helps give them super strength, maybe Caira the Chemist can shape-shift into different materials, or perhaps Billy the Biologist has a half-human, half-bird skeleton that allows them to fly to their lessons!
- 4 Get active** - Assign each of Empiribox's Super Scientist characters a new personality trait as follows: Phoebe the Physicist likes moving fast, Ciara the Chemist loves to freeze and Billy the Biologist loves wild animals. Share this with your class. Next, tell your pupils you are going to play a game where they have to walk or jog randomly around the playground / hall without bumping into one another. Whenever you shout out one of the Super Scientists' names - the pupils have to adapt their movement accordingly - so either run fast, freeze on the spot or move around like a wild animal (you could get specific with this last one for extra fun).



TOP TIP

We'll be looking not only at your pupils super inventive designs but at the superhero names and bio's.

NEED SOME INSPIRATION?

Here are a few examples you can share with your pupils to help get those creative juices flowing:

BIOLOGY SUPERHERO EXAMPLE

NAME:	Chloro-Phil
NICKNAME:	Shamrock
SUPERPOWER:	Chloro-Phil possesses the power to control nature. He glows with the power from the sun and can help people with his natural medicine. Creates food and energy out of nothing but light and air.
MISSION:	Chloro-Phil's mission is to help protect all natural habits and cure illnesses for all living things on earth.
WEAKNESSES:	Large umbrellas, dehydration, shade and shady comments.

CHEMISTRY SUPERHERO EXAMPLE

NAME:	Connie Combustion
NICKNAME:	Boom-Bang-Pow
SUPERPOWER:	Connie Combustion likes to mix in the same circles as oxygen which gives her a lot of energy and she's quick to react to things going on around her. She likes Chemical reactions, coal, wood, fireplaces, BBQs and firework displays. Her super power is heat. Need a fast reaction? Connie Combustion will safely bring the heat to speed it up when time is of the essence!
MISSION:	Connie Combustion's mission is to keep everyone homes warm, provide light in the dark and to protect the planet from an ice age.
WEAKNESSES:	The cold and can have a bit of a short temper.



CHEMISTRY SUPERHERO EXAMPLE

NAME:

Suzy Circuit

NICKNAME:

Sparky

SUPERPOWER:

Super speed, can power enter cities from her finger tips. Suzy "Sparky" is competitive and a bit of a show-off especially when it comes to sports (especially running). Reliable and resourceful. All Suzy needs is an orange or potato to replace a battery... and a bit of tin foil to fix any broken circuit. Got a power cut? Suzy Circuit to the rescue!

MISSION:

Sparky wants to use her powers for good to help save the planet to create a future where we only use clean energy and zero pollution.

WEAKNESSES:

Scared of the dark, water and off switches. Beware: she can also cause shocks!

SUPERHERO SCIENTIST WORKSHEET

We need your help to design our Empiribox scientists' secret superhero alter egos.

1. Read the scientist profile card for guidance and inspiration
2. Design a superhero alter ego that best represents their respective science field
3. Tell us about your superhero by annotating your design including their **name**, **superpower**, **mission** and **weaknesses**

Name: Billy the Biologist

Favourite colour: Green

Favourite animal: Ants, birds and bees

Favourite song: Supermarket Flowers by Ed Sheeran

Favourite food: Carrots, apples, avocado and sandwiches

Hobbies: Gardening, photography and horse riding

Likes: Geology, volcanos, archaeology and meditation



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Name: Ciara the Chemist

Favourite colour: Red and pink

Favourite animal: Chameleons, butterflies and frogs

Favourite song: Fireworks by Katy Perry

Favourite food: Popcorn, ice cream and baked beans

Hobbies: Swimming, skiing and painting

Likes: Magic, baking, fireworks and recycling



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Name: Phoebe the Physicist

Favourite colour: Purple

Favourite animal: Bats, dolphins and whales

Favourite song: Boom Boom Pow by Black Eyed Peas

Favourite food: Galaxy chocolate, starburst and pancakes

Hobbies: Running, cycling and singing

Likes: Space, robotics, maths, inventing and music



CONTINUE CREATING WOW MOMENTS IN SCHOOL

Empiribox have a full suite of online and physically science lessons and resources designed to support teachers to confidently deliver inspiring, hands-on, fun and thought-provoking science lessons that pupils will remember!

EMPIRIBOX DIGITAL Online Platform	EMPIRIBOX SELECT Online & Select Boxed-Up Lessons	EMPIRIBOX COMPLETE Online & Boxed-Up Subscription
<p>£2 per pupil per year</p> <p>FOR SCHOOLS, HOME EDUCATORS & PARENTS</p> <p>KS1/KS2 flexible online science resources perfect for interactive classroom activities, homework tasks and home learning.</p> <p>With Empiribox Digital-only package you get full access to our extensive library of KS1 & KS2 curriculum-aligned resources.</p> <ul style="list-style-type: none"> • Teacher-led interactive videos – Watch as our scientist Chris walks you and your pupils through exciting hands-on practical science investigations that can be completed anywhere and at anytime • Editable worksheets – to evidence pupils learning • Interactive quizzes – for summative assessment, no marking necessary! • Pupil certificates – reward and celebrate lesson and topic quiz completions • Easily shareable links – no pupil logins needed, setting homework or home learning tasks have never been easier! <p>FIND OUT MORE</p>	<p>FOR SCHOOLS</p> <p>Pick and mix from our KS2 curriculum-aligned topic boxes, everything you need for every practical science lesson all in one box.</p> <p>Build your own school science solution to support your existing curriculum plans. Each box provides:</p> <ul style="list-style-type: none"> • Practical science equipment – all you need for exciting hands-on classroom experiments • Curriculum-aligned supporting resources – lesson plans, PowerPoints, editable worksheets and video teacher tutorials <p>Our Empiribox Digital and Select packages are a great combination. Get hands-on with practical science in the classroom and then reinforce that learning by setting classroom or homework tasks through our flexible online platform.</p> <p>FIND OUT MORE</p>	<p>Request a quote</p> <p>FOR SCHOOLS</p> <p>Our full school solution – Looking for support with all your KS2 practical science lessons? But not sure where to start?</p> <p>No need to spend hours planning your science lessons, we do all the hard work for you.</p> <p>Our yearly subscription packages deliver all-in-one curriculum-aligned topic boxes that include everything you need for hands-on practical science lessons in the classroom that get delivered straight to your door every month for every year group.</p> <ul style="list-style-type: none"> • Practical science equipment – all you need for exciting hands-on classroom experiments • Curriculum-aligned supporting resources – lesson plans, PowerPoints, editable worksheets and video teacher tutorials • Assessment – to track progress and achievement • CPD – Build teacher confidence with live online training • Empiribox Online – Get FREE full access to our KS1/KS2 curriculum-aligned online learning platform <p>FIND OUT MORE</p>

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AT HOME

Whether you're a parent looking to help your children catch up from lost teaching time or a home educator looking for an all-in-one online platform for your KS1 & KS2 science needs – we've got you covered!

- **Hours of engaging content – videos, worksheets, quizzes & more!**
- **Everything is mapped to the school curriculum**
- **Minimal involvement necessary (We can't promise you won't be tempted to join in!)**
- **Use for homeschooling or as fun weekend activities that the whole family will enjoy**

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