

creative



workshops for EYFS - KS2

as creatives' Creative Science workshops provide an excellent way of engaging pupils with science and supporting them in understanding the world (and worlds) around us..

These exciting programmes provide an amazing way of promoting science, cementing pupils' subject knowledge, explaining difficult concepts and introducing new content. Amongst the many options you can choose from are...

- ☆ **Interplanetary Tours**
- ☆ **Pirate Science**
- ☆ **Science Skills**
- ☆ **CSI: Forces**
- ☆ **The Race into Space**
- ☆ **Big Science Days**
- ☆ **STEM Geodesic Domes**

PERFECT
for
BRITISH
SCIENCE
Week!

as creatives' immersive approaches engage even the most reluctant scientists, offering pupils fun and exciting environments in which to practise their skills.



"The workshops have helped support me with my mission to promote working scientifically and develop a love of science in the school."
Science Co-ordinator, Bursted Wood Primary School

Each year we deliver our Creative Science workshops to hundreds of schools across the UK and beyond. You can view the full range of programmes on offer at www.as-creatives.com, or get in touch with us via email at info@as-creatives.com or call our office on 0151 708 8886.



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Science Skills

Creating a “buzz” about Science Investigation – through drama!

What skills does a Science Investigator need – and how can the natural world help us identify and understand them? This quick-fired workshop, suitable for up to 60 children at a time, answers these questions through a high energy drama activity that incorporates both team working and problem solving too. And longer workshops can also include a game designed to cement key content from topics classes are currently exploring!

Exploring: science investigation skills, animal adaptations, subject-specific content.



Expect the Unexpected

How can Science Investigation save lives? Learning from the past!

Which great Science Investigators of the past capitalised on “happy accidents” to create amazing science? You’d be surprised how many there are, resulting in inventions that have fed the world, made life easier – and saved millions of lives! This busy and engaging workshop introduces children to some of these, from Post-its to penicillin to pacemakers, then supports them as they make connections to imagine and market some amazing new inventions of their own.

Exploring: science investigation skills, unexpected discoveries, cross-connectivity.

Pirate Science

Putting Science in context – with a real live pirate in school!



Blackbeard, Bartholemew Roberts, Anne Bonney and their ilk were undoubtedly skullduggerous scoundrels – but they also had to be sophisticated Science Investigators as they steered their way through the seven seas. But while our own travelling pirate, Captain Richard Morgan, has a strong grasp of science theory and fact, he’s less certain when it comes to the practicalities! So he’ll arrive in your school needing some grounding exploring such areas as floatation, forces, the use of Pirate Materials, navigation, nutrition and Pirate Science.

Exploring: floatation, density, upthrust, nutrition, vitamins and natural medicines.

Our Creative Science workshops are always rooted in real and concrete science but take approaches from the world of the arts. We love delivering these workshops in schools across the UK and they come highly recommended from teachers across the UK. You can view lots of lovely feedback on our website!



Interplanetary Tours

A fast-paced exploration of our solar system in which children learn and teach each other key facts

From Neil Armstrong's first steps on the moon to the photographs sent back by Juno on its historic and ongoing mission to Jupiter, we're all entranced by our neighbours in the solar system. And we'll know even more when Bruno, the British-built rover, lands on Mars in 2018. Taking things one step further, this intriguing workshop asks pupils to imagine the day when interplanetary tours are possible. Informed by the endeavours of such new space actors as Virgin Galactic and Space X, they'll plan, prepare and present short plays exploring the problems posed by visiting the sulphurous volcanoes of Venus, the gaseous storms of Saturn or the icy plains of Pluto.



Exploring: the solar system, orbits, gravity and the search for life.

Space Pirates

Navigating the stars – a beginner's guide to black holes and supernova!

Our travelling pirate, Captain Richard Morgan, has a new ship – but the Solar Surfer sails through the stars, not the seas! And as the Solar Surfer is powered by solar waves, of course, it's vital that the Captain understands the differences between Red Giants, White Dwarves and Black Holes. But that's the problem: he doesn't. So he'll arrive at your school in search of help.

After working in small groups on an age-differentiated independent carousel of activities, pupils will have all the information they need to solve his problems for him. And they'll do that by performing dramatic representations of a range of different possible life cycles for stars – and alerting the Captain as to exactly what he needs to look out for!

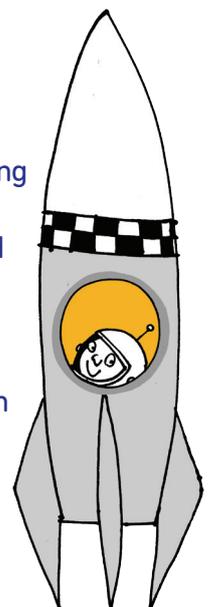
Exploring: the characteristics of stars, the life cycles of stars, characteristics of other bodies in space.

The Race into Space

Mixing science and maths for up to 420 pupils in a single day!

The search is on for Britain's next astronaut – and Major Tom wants your pupils' help in selecting the best person for the job! After meeting the Major at an opening assembly, and being introduced to the would-be astronauts, each class will be issued with a Mission: to analyse and manipulate data to rank the candidates on one of a number of factors (including bone density, kidney function and the ability to work in confined spaces). The Major will be on hand to visit each classroom with some vital, additional information – and the programme ends with a second assembly in which each class reports back its findings and helps whittle the field down to just one: Britain's next astronaut.

Exploring: the effects of microgravity, a range of skills in data handling and/or numerical operations and/or understanding shape.



We deliver our workshops all year round but they are particularly popular during key seasonal events such as World Space Week and British Science Week!



Big Science Days

Whole-school celebrations of Science can be challenging if different year groups are all exploring different areas of the curriculum - which is where our Big Science Days can help! We'll start the day with a whole-school assembly exploring the wonder, importance and relevance of science - then deliver workshops for each year group, using drama techniques to crystallise Five Key Facts related to their area of scientific investigation. And as each workshop can accommodate up to 60 children, a Big Science Day can cater for up to 420 pupils!



Alternatively, if you have a whole-school, thematic approach, you can select a Big Science Day from **Amazing Animals (and Hair-Raising Humans!), Phenomenal Plants, Looking at Light and Eclectic Electricity** – just ask for more details!

Fossil Hunters

Using role play to explore rocks, soils and palaeontology

After exploring both the differences and connections between rocks, soils and fossils and handling objects from millions of years ago, pupils will take on the roles of ardent palaeontologists who find themselves in a tricky situation as they investigate the contents of an ancient river bed. Armed with word banks of key vocabulary and some simple props, they'll work in small groups to plan, prepare and perform short plays that build on the challenges faced by Fossil Hunters!

Exploring (according to age): soils, rocks, fossil formation.

CSI: Forces

How do different forces operate – and what do they actually do?

CSI: Forces sets your pupils a problem – to use their knowledge and understanding of forces in identifying which of six suspects sabotaged the new Jupiter VII space rocket. They'll take part in a number of activities, each releasing a force-related clue eliminating one of the possible criminals – until the Police Force becomes the most important force, as the miscreant is hauled before justice ...

And we now have two new variants on this popular workshop, exploring how forces operate in two specific contexts: **CSI: Rollercoaster** and **CSI: MoonShot!**

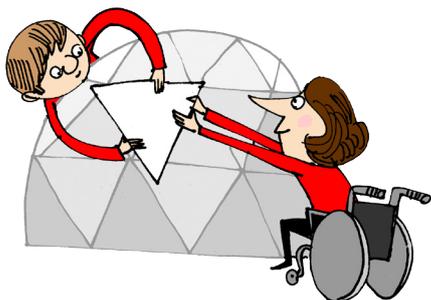
Exploring: gravity, friction, upthrust, centrifugalism, centripetalism, magnetism.

We know how complex delivering whole-school approaches to science can be, so you can now book a Big Science Day for a number of year groups, comprising either different workshops exploring a number of topics – or a range of age-differentiated activities on a single scientific theme!



STEM Geodesic Domes

What connects science, maths, engineering space – and sport? Geodesity, of course! And our Geodesic Dome programmes offer students fantastic opportunities to cement their understanding of specific curriculum areas – and to celebrate and share their learning in a unique, eye-catching and inspiring way.



After recalling their learning in a creative manner, students will work to a template in using it to illustrate the 105 triangular panels that make up our Geodesic Domes. They'll then be guided through a process that allows them to fit the triangles together to make hexagons and pentagons – and then to piece these together to construct the 2m high dome.

Exploring (in addition to your curriculum area): chemical structures, engineering forces, properties of 2D shapes.

The Best of British Science

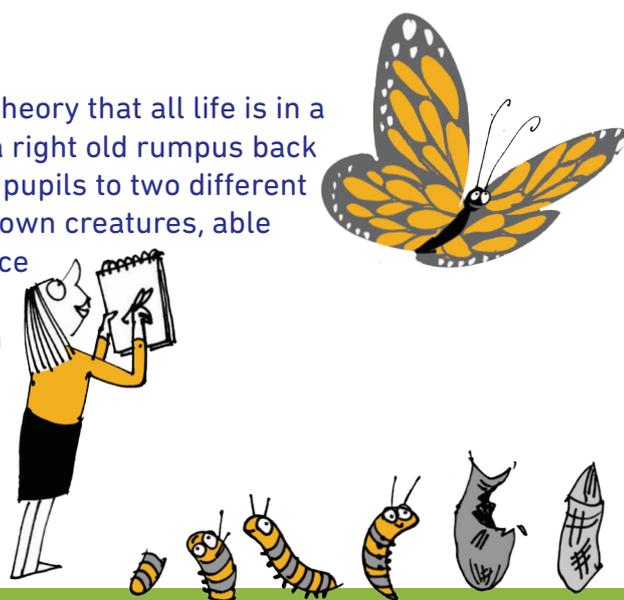
After a whole-group activity exploring the achievements and impacts of such British luminati as Isaac Newton (physics), Joseph Priestley (chemistry), Rosalind Franklin (biology) and Colin Pillinger (engineering), students work in small teams to plan, prepare, present and peer review persuasive “television” adverts promoting the work of each of these. This workshop can cater for up to 30 students at a time – and requires a minimum of an hour (although the longer we have, the more depth we can go into, of course).

Exploring: science in context; areas including gravity, power, states of matter, DNA, engineering, space exploration.

Exploring Evolution

Most of us take Darwin’s ideas of natural selection, and the theory that all life is in a constant state of change, for granted – though they caused a right old rumpus back in 1859! This workshop uses drama techniques to introduce pupils to two different theories of evolution – then challenges them to design their own creatures, able to thrive in some changing environments. They’ll then produce short “documentaries” introducing the world to their newly-discovered animals – and support each other through peer evaluation.

Exploring: evolutionary theory; heredity; animal and plant adaptations.



If you are looking for ideas and inspiration for your classroom then our website has a brilliant selection of creative learning resources which are free to download! just visit www.as-creatives.com/resources.

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"Thank you so much for making the topics so engaging, relevant and meaningful to the children. I know for a fact how much my class loved inventing new things."

Science Co-ordinator, St Matthias School

"It was great to see an inventive way of teaching tricky science concepts through drama. A good balance to the hands-on investigative approach and one which I hope staff may attempt themselves in future science lessons."

Science Co-ordinator, Windsor Primary

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