

# The Bright Sparks Electricity Programme

## The Bright Sparks Workshop

## Benefits to your school and teachers

**Bright Sparks is a one day hands-on workshop, aligned to the National Curriculum which aims to teach young people all about electricity.**

**The programme is delivered by Cumbria and Greater Manchester STEM Centres working in partnership with Electricity North West.**

STEM Centres are educational charities which promote the development of Science, Technology, Engineering and Maths [STEM] skills among young people.

Electricity North West is the company that operates and maintains the region's electricity network. We are committed to supporting education, improving employability skills, and better equipping young people for careers in science based activities.



Developed in 2000, the Bright Sparks Electricity day is delivered to over 3000 children annually in schools across the Electricity North West area.

A typical Bright Sparks workshop runs during a normal classroom day and is led by our experienced tutor. Pupils will work in groups on practical electricity related tasks covering the following:

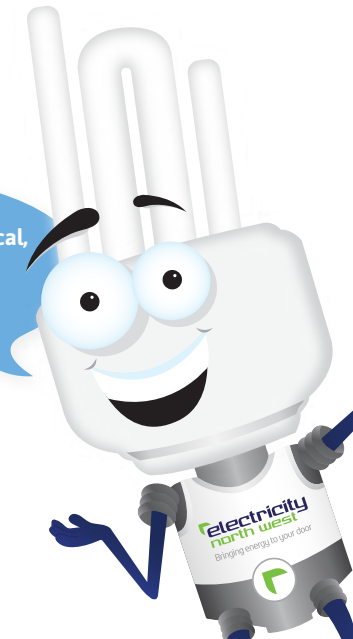
- **How electricity supports our life style**
- **Practical learning using custom made circuit boards**
- **An understanding of electrical symbols and circuit diagrams**
- **Predicting and testing electrical properties of conductors and insulators**
- **Investigating series and parallel circuit characteristics**
- **Investigating the effects of resistance in circuits**
- **An understanding of the electricity network from the power station to our homes, schools and businesses**
- **The dangers of the electricity network – overhead lines and substations**

### The Bright Sparks day:

- **Enhances National Curriculum Science studies and delivers the electricity topic in one day**
- **Raises awareness of engineering and science as a career choice**
- **Help teachers gain confidence in teaching the electricity topic**



It's a great one day practical, fun experience for all your pupils!



## Benefits to pupils

Through our hands-on approach to teaching electricity awareness the workshop will help your pupils:

- Increase their knowledge and understanding of electrical components and circuits
- Increase awareness of electricity health and safety
- Make judgements based on knowledge and observation
- Improve their approach to co-operative teamwork
- Learn that science is enjoyable and fun



## Further information

### Maximum classroom group size: 36

Bright Sparks is primarily aimed at years 4 to 6 pupils but can also be adapted and delivered to all Key Stage 2 pupils.

To find out more or to book your Bright Sparks workshop please contact:

#### Cumbria

Cumbria STEM Centre Ltd  
Tel: 01539 814617  
info@cumbriastemcentre.co.uk  
Registered Charity No. 1137364  
www.cumbriastemcentre.co.uk

#### Greater Manchester/Lancashire

Greater Manchester STEM Centre Ltd  
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Registered Charity No. 1040251  
www.stemsalford.org

**electricity**  
north west  
Bringing energy to your door



# Electricity Key Stage 2

## Bright Sparks Electricity Day

A one day practical science and electrical safety programme for Key Stage 2 pupils

Delivered in your classroom by an experienced STEM Centre tutor

