

# science art writing

### A Cross-disciplinary approach





Some people are already on the 'science bus'! Supporters and opposers..

How about everyone else?!



## The SAW Trust



SAW's founder, scientist Professor Anne Osbourn FRS from the John Innes Centre

- Self-funding registered charity based at JIC, founded in 2006
- Our aim is to bring science (and scientists) into everyday lives and develop new ways of stimulating creativity, exploration and learning



### Real research topics in the classroom









### A SAW Day: Science













### Poetry



#### JADEN age 10

Bacteria hotel Annoying but helpful Colonies Threatened by bacteriophage Exceptionally life-saving Resting in our own bodies Important A very useful thing THALES KEYSER age 11

#### Invasion of the plague

The first body of the victim fell to the floor. Invading the next, Unleashing a wave of unstoppable minions, Tirelessly attacking, Infinitely resisting. Too tiny to see, Too much pain to handle

The feel of fright. Occupying the first cell, Changing its will, Cloning itself, Sending an inferno at the body's defenses, Too tiny to see, No trace of goodness.

With one destiny, Only one desire, Growing infinitely, Taking more lives, Outrageously sucking life gone. Too tiny to see, Do panic. They're coming.

The body's defences are weakened. Its might grows, Destroying the last, Striking down the heart, Its body fell to the floor. The job is done. They're moving on.





#### Art













# Numbers



**5,000** Primary school children taught science through SAW



**225** Teachers trained in SAW methodology



>500 Early career/established scientists delivered SAW activities



SAW books in 2 languages



### **Antibiotics Projects**

#### saw antibiotics

Science from the Norwich Research Park



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Edited by Arese Oclasses, Matt Hutching Tem Welcose & Jenny Rant









"I thoroughly enjoyed this stunning book. Educating children in such an interactive way is so important. I am passionate about addressing AMR, as are the researchers, and I hope this can help inspire future generations to engage in the efforts to save modern medicine".

Prof. Dame Sally Davies, Chief Medical Officer





www. Public Health England



Biotechnology and Biological Sciences Research Council









**Public Events** 

We have been taking stands to Latitude Festival for the last 4 years and now run the science tent.



My little boy went to the science tent at the latitude festival and had THE BEST time ever! I wanted to reach out to all the science PHD students and lecturers who worked so hard to make this the best best best experience for him.

















## Working with communities

You can't judge a book by its

cover.

Come and take part in a brand new workshop that gives you the opportunity to learn more about

What's your

story?

Working with Prof Neil Cooper from the School of Psychology, UEA, we invited the public to explore their sense of self and create books to share.











CHANGING MINDS . CHANGING LIVES



## Guardians of the Gut



OBIOLOGY



We built a giant, interactive walk-through gut with game stations for people to learn all about their gut microbes and how they grow and change with us as we age.



Quadram

Science 

Health 
Food 
Innovation



Our purpose-built website for schools with quizzes, videos and resources for the classroom has a continual data collection platform developed with a child psychologist to capture usage and measure impact.



#### OpenPlant - JIC, EI & University of Cambridge

#### **Global Garden Workshop**











Engineering and Physical Sciences Research Council



Biotechnology and Biological Sciences Research Council





## **Creating Resources**



#### All the Buzz lesson pack includes;

- science based lesson plan and slides with guidance notes for teachers
- educational bee-themed board game
- colony lifecycle challenge
- Animated video created by children





Conscious Consumers is a new project for teenagers that focuses on topical issues. The first topics are plant-based diets, personalised nutrition and food miles. We are planning to cover rewilding and climate change next!



I have started to think more about what I eat and where it comes from and am more conscious of my food miles (14 year old)







### Images provide the starting point



norwich research park Image Library

The NRP is an international centre of excellence in life and environmental sciences. Our aim is to deliver solutions to the global challenges of healthy ageing, food and energy security, sustainability and environmental change. Come in and explore our collection of images.



#### Death's-head hawkmoth

NRP-105 Katanzynia Ignasiak, Tony Manwell and Lan Dealland (. Death's-head hawkmoth lanvae (Acherontia tropos). Scientists at the John Innes Centre on he Norwich Research Park are investigating lants as a notential source of novel antibacterial



TZ Arabidopsis seed timecourse lana MacGregory, John Jones Centre, he piles of seed in this image are from the model plant Arabidopsis (COL) and are matured 1 16of: by incubation for 24, 48, or 72 hours in he presence of water with 1% tetracolium (2.3.5-tr.)



# Most of the compounds we use as antibiotics, or

NRP Image Library:

http://images.norwichresearchpark.ac.uk



search text here

Q





Art & poetry exhibition at SCVA 2019



### Example intern Projects – depending on date!

Summer Science Challenge Book



Climate change & rewilding topics



Social media partnership project with JIC to build NRP image library



John Innes Centre

Unlocking Nature's Diversity



Building digital hub for FFDT





DNA Dave video tutorials & website

Climate change SAW activities & development of primary school conference with Norwich Science Festival



#### Edible East sci-art trail project





ABOUT SAW IN SCHOOLS NEWS OUT AND ABOUT WORLDWIDE GET INVOLVED BUY THE BOOKS

The science, and and mriting initiative breaks down traditional barriers between the arts and sciences.



#### www.sawtrust.org

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Get in touch if you would like to work with us!





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