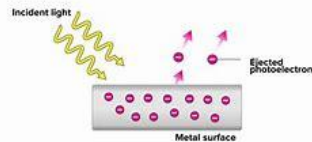
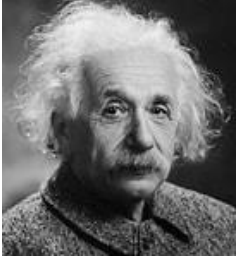


# SCIENCE BULLETIN

MARCH 2024

## Scientist of the Month: Albert Einstein



### Who was he?

Einstein was a German mathematician and physicist. He immigrated to the United States in the 1930s to escape the German regime at the time. He died in April 1955 at age 76. If you are interested in the life of Einstein and his work, check out the documentary 'Einstein and the Bomb' on Netflix.

### What did he discover?

One of his most famous and notable discoveries was the development of his theory of relativity. He won a Nobel Prize in Physics in 1921 for his work on the discovery of the Photoelectric Effect (shown above). His work also had a major impact on the creation and development of the Atomic Bomb.

### Question of the month:

**If bananas are radioactive and therefore can radiate heat, how many bananas would it take to power a house?**

On average, one banana decays 15 times every second producing roughly 2 picowatts of power (a very small value). Using this, we can assume that in an ideal world where 100% of that is captured and used with perfect efficiency then it would take approximately 300 quadrillion bananas to power a house!

(There's no need to worry as this radiation is not harmful to us)

## Random Science Fact:

There are more microorganisms in one teaspoon of soil than people on the planet. Millions of species and billions of organisms—bacteria, algae, microscopic insects, earthworms, beetles, ants, mites, fungi, and more—represent the highest concentration of biomass anywhere on the planet.



## Scientific Talk of the Month:

Ted Talk -

[https://www.ted.com/talks/suzanne\\_simard\\_how\\_trees\\_talk\\_to\\_each\\_other?hasSummary=true](https://www.ted.com/talks/suzanne_simard_how_trees_talk_to_each_other?hasSummary=true)

Ecologist Suzanne Simard explores the harmonious and complicated social lives of trees, discovering how some trees even favour their own offspring.



## Question of the month for April:

What would happen if everyone on Earth stood as close to each other as possible and jumped with everyone landing on the ground at the same time?

# WHAT'S GOING ON THIS MONTH?

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
				1	2	3 World Wildlife Day - WWF
4	5 Biosciences Careers Day	6	7 Science club – Van der Graaf and static experiments	8 – British Science Week starts	9	10
11	12	13 Introduction to Moltex FLEX Reactors	14 Science club – How to accurately measure time with a sand clock	15	16	17 – British science week ends
18	19	20	21	22	23 Earth Hour (8:30pm) - WWF	24
25	26	27	28	29	30	31

# USEFUL LINKS FOR UPCOMING EVENTS

## **Useful Links for Upcoming events:**

World Wildlife Day WWF - <https://www.wwf.org.uk/world-wildlife-day>

Earth Hour WWF - <https://www.wwf.org.uk/get-involved/schools/school-campaigns/earth-hour-schools>

Biosciences Careers Day -

<https://www.rsb.org.uk/events?event=biosciencecareersday2024>

Introduction to Moltex FLEX Reactors - <https://www.iop.org/events/introduction-physics-moltex-flex-and-ssr-w-reactors>

## **British Science Week 2024**

<https://www.britishscienceweek.org/app/uploads/2024/02/British-Science-Week-2024-Secondary-pack.pdf>

Above is a link to a pack created by British Science Association containing a 'how to' guide on how to do practical activities at home based on this years British Science Week theme, Time.