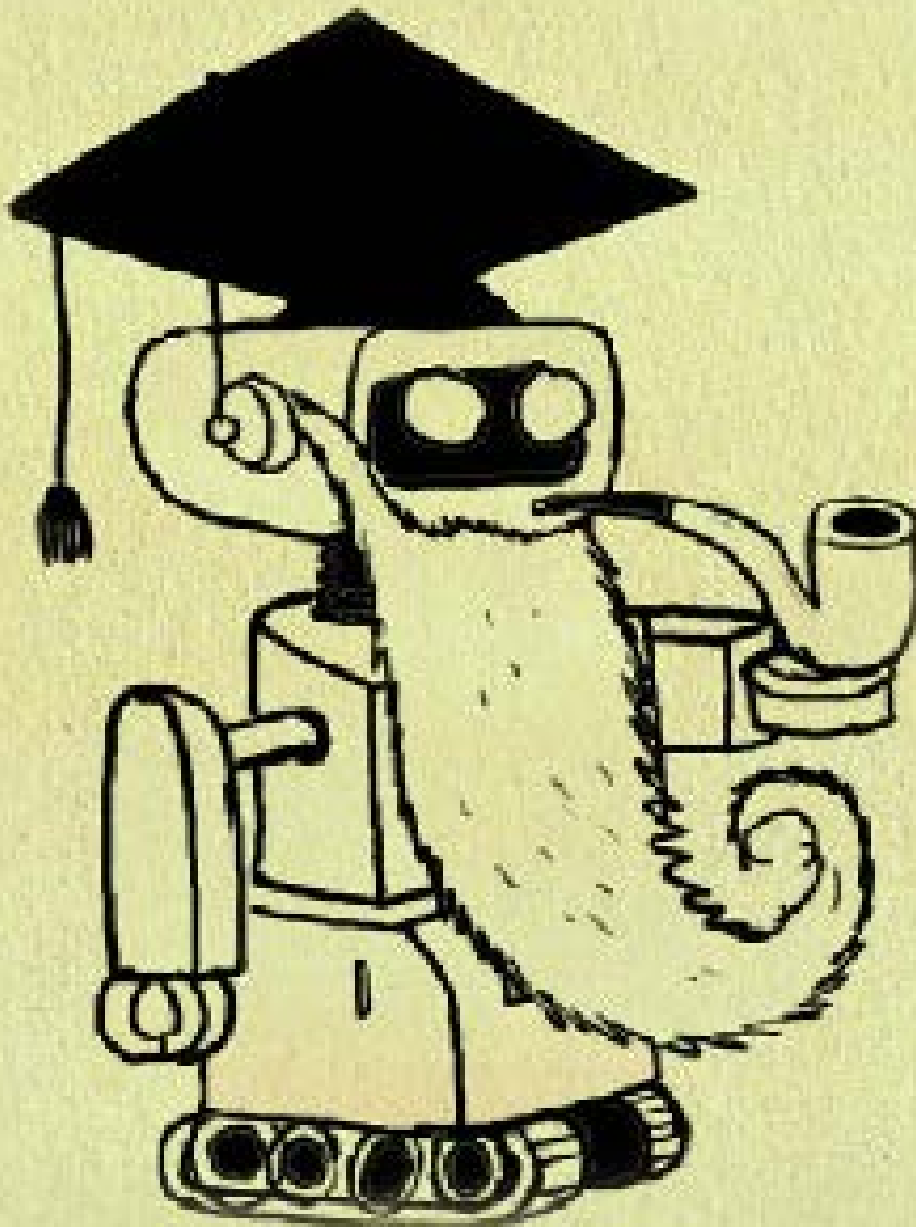


# 60 Second Adventures in Thought and 7 Wonders of the Microbe World

Can a cat be both alive and dead? Can a computer think? Would you wear clothes made from bacteria?



# 60 Second Adventures in Thought and 7 Wonders of the Microbe World

Programme running: 6 x 1 min (Adventures in Thought) and 1 x 25 mins (Microbe World) Production: Angel Eye Media

## 60 Second Adventures in Thought

Voiced by comedian David Mitchell, these fast-paced animations explain six famous thought experiments.

### Achilles and the Tortoise

Can a tortoise beat a legendary hero in a race? Even if the tortoise has a slight head start, most of us would bet on the hero. Yet every time the hero catches up, the tortoise is moving forward again.

### The Grandfather Paradox

If you went back in time and killed your own grandfather, would you have ever been born? And if you weren't born, who killed your grandfather?

### The Chinese Room

Does a computer have to understand in order to be intelligent? If a computer can convince a human they are talking with another human, is it really thinking?

### Hilbert's Infinite Hotel

Mathematician David Hilbert imagined a hotel with an infinite number of rooms. No matter how many guests turn up, can he always find them a bed?

### The Twin Paradox

If time flies when you're having fun, what does it do in space? If Albert Einstein's twin brother travelled into space, he might come back younger!

### Schrödinger's Cat

This famous experiment puts a cat in a box of radioactive particles. Will the cat make it out alive?

## 7 Wonders of the Microbe World

Microbes are responsible for diseases from black death to cholera, but these tiny single celled organisms also help us survive and make our favourite foods taste great. From biofuels to blue cheese, you just need the right microbes!

When harmful bacteria get into the body, we can fight fire with fire – antibiotics. In the tough world of microbes, microbes are used to fighting off competitors. All we need to do is get them fighting for us. Like a videogame fighter, microbes have special moves: one of them is producing antibiotics. But if we use antibiotics too often, the bad bacteria start work on some special moves of their own... Superbugs!

As the oldest form of life on earth, microbes generate around half the oxygen we breathe. We need them to survive! And soon they might be able to create sustainable energy through biofuels. Microbes can break down waste from food production, such as stalks and husks, to create the clean fuel ethanol.

Microbes are also making their way out of the lab and into our wardrobes. Infusing clothes with bacteria or viruses can make them self cleaning or even naturally glow in the dark. Would you wear a t-shirt made of 99% cotton and 1% E.Coli?

The ultimate question – is there life elsewhere in the universe – might be answered by microbes. These clever organisms can adapt to environments where no other form of life can survive. If microbes can live in volcanoes and ice caps, they might have thrived on Mars.

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