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"One thing that's changed a lot with the new specifications is the requirement to access the **higher level thinking**.

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Ofsted: *Research Review Series* (Religious Education)

"MASSOLIT is a tremendous learning tool. The lectures are delivered by world class academics who clearly have in mind a teenage audience, so the **students are gradually introduced to complex thoughts without feeling lost or overwhelmed.**"

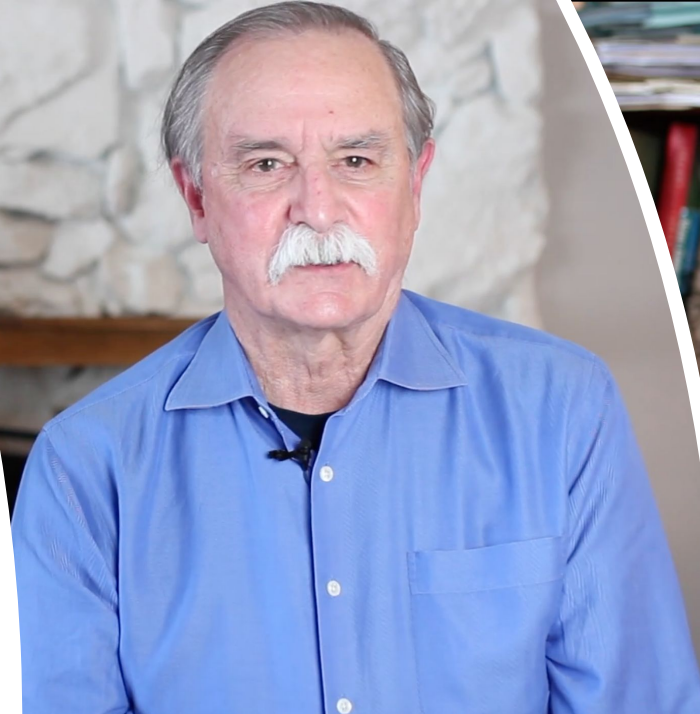Library and Digital Resources Manager, Hills Road Sixth Form College

Some of the world-class Academics on MASSOLIT...

Nobel-prize winner **David Wineland,**
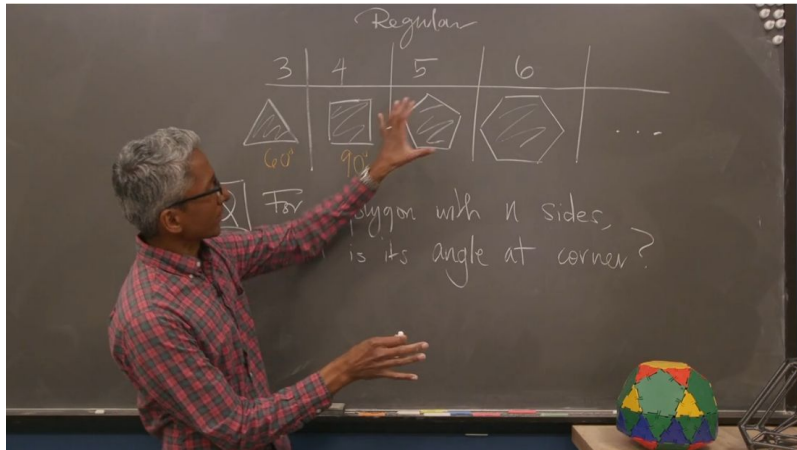Distinguished Research Professor in Physics at the University of Oregon

Professor **Joanna Haigh** (CBE),
recipient of Charles III Medal from the Institute of Physics

Professor **Sir Richard Evans**,
Regius Professor Emeritus of History at the University of Cambridge

Professor **Charles Spence**,
Head of the Crossmodal Research Laboratory at the University of Oxford

"The level is **beautifully judged** " Caterham School

2. Newton's Three Laws of Motion

Example of Newton's Second Law

An engine gives out a constant force of 2000N.
The car has a mass of 1000 kg.

$$a = \frac{F}{m} = \frac{2000N}{1000kg} = 2^m/s^2$$

Now, make the car lighter so that m = 500kg.

$$a = \frac{F}{m} = \frac{2000N}{500kg} = 4^m/s^2$$
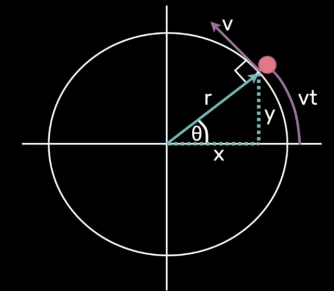
1. Hooke's Law and Simple Harmonic Motion

Showing that Acceleration is a Constant Times x(t)

→ $x = r\cos(\theta)$

→ $y = r\sin(\theta)$

→ $\theta = vt/r = \omega t$

→ $\mathbf{r} = (x, y)$
  $= (r\cos(\theta), r\sin(\theta))$
  $= (r\cos(\omega t), r\sin(\omega t))$
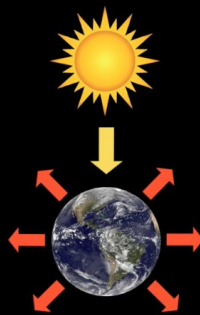 $= (x(t), y(t))$
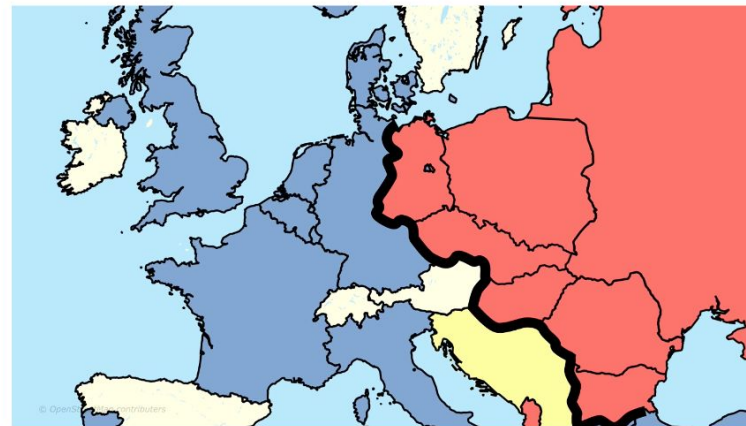
The Stefan-Boltzmann Law

→ The Stefan-Boltzmann Law describes the amount of energy radiated from a blackbody (e.g. the Earth)

→ Energy radiated from Earth is equal to the energy absorbed by the Earth
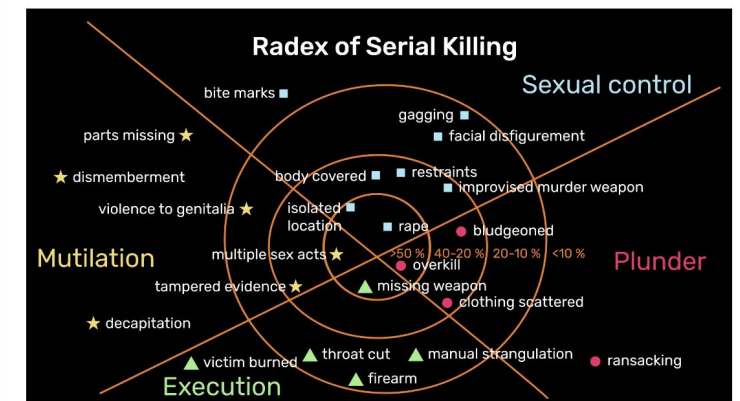
→ Using this law you can calculate the temperature of the Earth to be -18°C

1. Background to the Crisis

© OpenStreetMap contributors

9. The Radex Model of Serial Killers
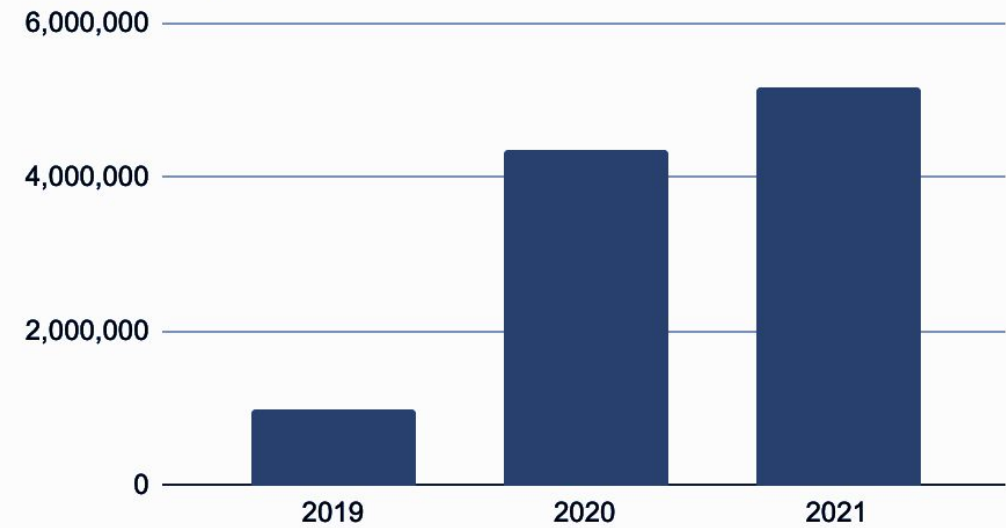
Radex of Serial Killing

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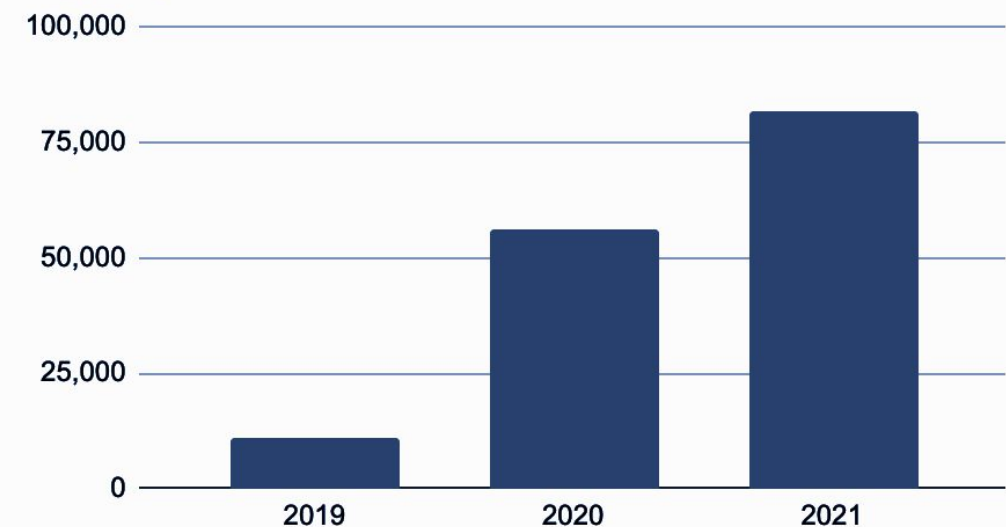
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