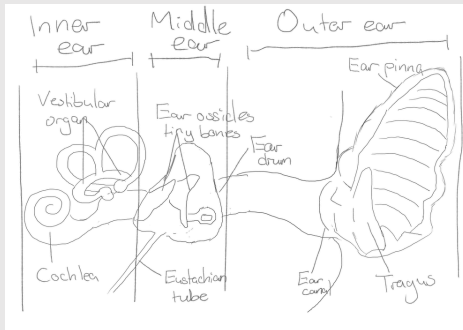


the spooky side of science

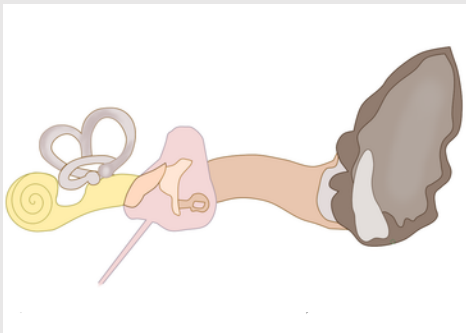




Icon sketches

October 2025 | Krita | Inkscape | 2D Illustration | Sketch

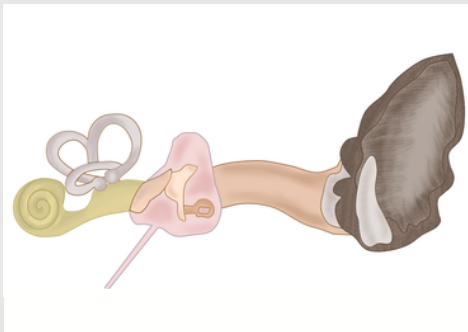
When I created these initial sketches I took inspiration from real-world references such as [The Canadian Encyclopedia](#), [Cambridge University Press](#), and [BBC](#). I was working against a deadline, as I had only provided myself with 10 days to produce these infographics for the IndTalks social media pages prior to Halloween 2025.



Concept art

October 2025 | Krita | Inkscape | 2D Illustration | Concept

At this stage, I focused on colour blocking to establish clear silhouettes and ensure each icon was immediately recognisable before adding detail. When colouring blocking I kept to a classic and neutral colour palette for each object, as opposed to stylised Halloween colours.




Refined concept art

October 2025 | Krita | Inkscape | 2D Illustration | Concept

I used this stage as an opportunity to test new brushes in Krita, which required some adjustment but ultimately helped me better understand how brush choice affects texture and depth.

IndTalks' SPOOKY STRUCTURE AND FUNCTION OF THE PUMPKIN



Stem (peduncle) cross-section

- Tracheid walls
- Parenchyma cells
- Cellulose

Pumpkin seed cross-section


- Lignin
- Cellulose

The pumpkin peduncle contains xylem and phloem to transport water, nutrients, and sugars, provides support for the heavy fruit, and helps protect it from damage and disease.

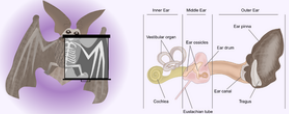
A pumpkin seed has a protective coat, stores nutrients in the endosperm, and an embryo with a radicle (future root) and plumule (future shoot). It supplies energy and protection for the embryo until it germinates.

Did you know?

- A pumpkin is a fruit, not a vegetable. This is because pumpkins have seeds.
- Pumpkins are composed of 90-94% water. Whilst, humans are composed of roughly 50-70% water.
- Pumpkins typically contain an average of 300 to 500 seeds.



IndTalks' FRIGHTFULLY FASCINATING: THE SCIENCE OF BATS



The scientific name for bats is Chiroptera, which means 'hand-wings' in Greek. Bats have four long fingers and a thumb, each connected to the next by a thin layer of skin.

Micro-bats do not rely on sight to find food. Instead they use a form of radar called echolocation. Micro-bats echolocate by bouncing sound waves off objects and listening to the echo.

Did you know?

- Not all bats hibernate; some of them migrate to warmer areas while others hibernate.
- Bats are not blind. Bats have small eyes with very sensitive vision, which helps them see in conditions we might consider pitch black.

Echolocation: The Process

- The bat emits a high-frequency sound pulse through the mouth or nose.
- The sound waves bounce off nearby objects.
- The returning echoes are received by the ears and processed by the bat's brain.

Layout design

October 2025 | Krita | Inkscape | Canva | 2D Illustration | Layout

These Halloween infographics feature designs focusing on pumpkins, pumpkin seed cells, a bat and the inner ear of a bat. Both infographics were designed with similar colour palettes and layouts in mind. One of my biggest challenges was finding the correct placement for the text. Through iteration, I adjusted the layout, spacing, and scale to create a balance where the text supports the artwork rather than overpowering it.