**Carnegie Creators @ Home**

Week 4: Excellent X-Rays



**Victorian Invention: X-Rays**

Have you ever had to have an X-Ray at the hospital? Do you know what an X-Ray is for?

X-ray machines allow doctors and scientists to look inside our bodies at the bones that make up our skeleton.

X-rays were discovered by accident in 1895 by Wilhelm Conrad Röntgen when Queen Victoria was on the throne – they were much blurrier and less safe then than they are today.

**Did you know…**

Most babies are born with 270 bones but when you are grown up you only have 207 as some join together!

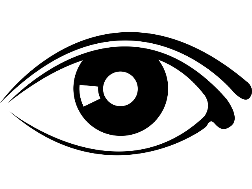
Andrew Carnegie’s wife, Louise, paid for the

very first X-Ray machine in Dunfermline at

**Carnegie Connections**

Dunfermline College Hospital!

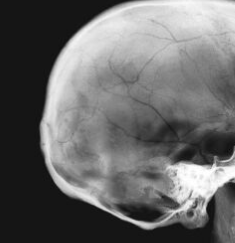
Here is a picture of her and Andrew….



**LOOK**

**X-Ray Quiz**

Question: Can you work out what part of the body these x-rays are of?



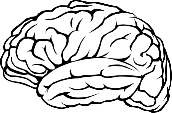
**AND**

**3.**

**2.**

**1.**

**THINK**



**Please turn over**



**X-Ray Quiz answers:**

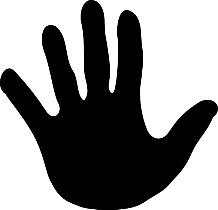
1. Skull (head) 2. Hand 3. Mouth 4. Knee 5. Foot 6. Ankle

**6.**

**5.**

**4.**

**Some ideas for Excellent X-Ray activities….**



**DO**



***Use science to make some skeleton leaves***

This is a really easy experiment! All you need to do is collect some leaves and put them in a tub (with a lid) and cover them with water.

As time passes you should see the green colour disappear and the leaves turn into skeleton leaves!

Hint: You might need to gently rub the leaves occasionally but be careful they don’t rip.

And a song you probably know to help you learn all about your own body/skeleton:

Head, Shoulders, Knees and Toes

Head, Shoulders, Knees and Toes, Knees and toes

And eyes and ears and mouth and nose

Head, shoulders, knees and toes

**Question:** Do you know the names of any other bones in your body? Maybe you can find them out!

***Make a moving skeleton***

Use [**Purple Activity Sheet 2**](https://mark-hosker-fpo5.squarespace.com/s/Excellent-X-Rays-Activity-Sheet-2-Skeleton.docx) and see if you can put together a human skeleton.

If you have split pins, you can use these and your skeleton should move!

***Make an X-Ray Tablet***

Use [**Purple Activity Sheet 1**](https://mark-hosker-fpo5.squarespace.com/s/Excellent-X-Rays-Activity-Sheet-1-X-Ray-tablet-8rs5.pdf)and follow the instructions to build your own x-ray tablet

Watch as the x-rays magically appear….

If you have access to the internet you can listen to the song Dem Bones and sing along – don’t forget to join in the actions:

<https://www.youtube.com/watch?v=Jpvuqj5nv6U>