

PYP

Unit of Inquiry

How the World Works

Understanding the structures inside physical things informs things that happen on the outside.

What do you know about the word, *inside*?

Maya I know, inside means that when your body; has insides in. Your heart, your lungs are inside your body and all of your body parts are inside your body.

Mackenzie And your bones...

Penelope Do you know if you've got an orange, it's got little seeds inside it. And sometimes there are seeds inside mandarines.

Any other ideas?

Gonzalo It means...I don't know.

Smilian Ah, when the orange grows seeds it helps your body.

Robbie Inside there is the onion.

Liam What happens...when you squish an orange it turns into juice.

It can change, you are right...

Charlie I don't know.

Do all these pieces of fruit have an *inside*?

Robbie And a chopping board for the onion.

What about *outside*?

Mackenzie Skin!

Penelope You know the onion skin cracks off.

They each have skin. Like we have skin. Are they all the same?

In unison Different!

How are they different?

Fletcher Because that one's green, that one's orange.

So they are different colours?

Fletcher And sometimes they have different colours in their body.

What if you touch it? Is it soft, smooth, warm, cold...

We have skin which protects the inside of our body.

Mackenzie I have blood.



Victorian Early Years Learning and Development Framework

Outcome 4: Children are confident and involved learners

Children are active learners exploring the world through touch, sight, sound, taste, smell and movement. The child's brain develops rapidly through physical explorations and their active engagement with others who speak and respond to their interests

One at a time we passed the orange, apple and onion around the circle.

Florence It feels hard...

Liam It's really cold!

What do you think we will see on the inside?

Will it be the same colour on the inside, as it is on the outside?

Fletcher The inside is circle.

We began to peel the outside of the onion...

What does it remind you of?

Fletcher Paper.

Christine Paper.

Smilian Oh that, that is a vegetable! Inside, and the outside.

What do you think it will look like on the inside?

Robbie It will look like purple.

Penelope It will look like dark purple.

Onions are interesting because...

Mackenzie They make you cry.

Yes, and they have many layers.

We decided to chop it in half.

Gavin Don't cut your finger!

What shapes can you see?

In unison Circles!

Mackenzie Smaller and smaller and smaller...

Concentric circles. Circles inside circles, inside circles.

Robbie We have to cut the apple and the orange!

What will be inside the orange?

In unison Juice!

What colour?

Florence Orange!

Lighter, darker?

Fletcher Like water!

Will we see the same shapes?

Smilian It's like a football! (*referring to the shape of the orange*)

What do you notice? Is this skin like paper? Is it thick or thin?

In unison Thick!

Gavin There's some juice outing.

Why does the orange have thick skin?

Mackenzie To protect it.

Florence There's some juice coming out!

What does it remind you of?

Charlie Orange juice.

Smilian No eating! (*don't eat it*)

Gavin It smells like juice.

The orange was orange inside...will the the apple be green inside just like the orange?

We then cut the apple in half. unison Nooooo!

Smilian It's white inside, just like the lights are white!

Maya There's seeds inside.

Gonzalo The light is white!

Next week we will further extend the children's understanding of how the structures inside physical things impacts what happens on the outside, by looking at the human body.



OBSERVATIONAL DRAWING

Drawing from observation involves interaction between seeing and reasoning, feeling and memory. Each person 'sees' differently, each chooses different places to draw. This invites children to look closely at things and encourages them to make more detailed drawings than they do when drawing from memory. It can also lead to joyful discoveries.



It smells like the sun.
Like in the sky.
- Smilian

