

Lesson Plan			
Subject/Area of Learning: Science	Date: 26.11.12	Age and size of group: Year 5 28	Observed Lesson:
Related Curriculum References: NC, PNS	Resources: Gloves Magnifiers USB Microscope Camera		
Points Carried Forward: On-going scientific investigation. Children understand structure of investigation and purpose of different sections. Children are developing their knowledge of teeth and health. Children have experience of making observations and using microscope.			
Focused Learning Objectives: To make a scientific conclusion		Success Criteria: I have observed changes I have described my observations I can explain my observations	
Stages of Teaching			
Timings 10 mins	<ul style="list-style-type: none"> • Introduction/Mental Oral Starter: <p>Discuss and recap how we carried out our investigation and why? What do we need to know? Why? What method did we use? Show examples of good writing/observations by children during planning stage. Discuss marking ladder.</p>		
40 mins	<ul style="list-style-type: none"> • Development: <i>To include</i> • Whole Class/Group/Independent <p>Class is split into 5 groups. Each group has teeth that have been in different solutions to observe. Children can handle tooth using gloves and use magnifiers to observe. Whilst children in the group are writing some take it in turns to photograph using SLR camera. L and B may need help with writing up findings alongside adult.</p> <p>One of the five groups will be observing a tooth/teeth under the USB microscope. Each group will spend 5 mins observing and writing about the teeth at their table before moving onto the next table.</p> <p>Mini plenaries throughout. Remind children about scientific language and what needs to be included in investigation.</p> <p>Observe teeth under microscope on white board so whole class can see. Whole class discussion with regards to findings. What? Why? Where? How? When? etc. A fair test? Which tooth has changed the most? Can you still identify a canine?</p>		
10 mins	<ul style="list-style-type: none"> • Plenary/Conclusion: <p>What conclusions have individuals come up with? Why? What could we look at next time? What could we do differently? What have we learnt? Look at marking ladder – have we written a successful investigation?</p>		

Lesson Evaluation : What happened and why? – Critical Reflection and analysis

Try to link comments through sections 1, 2 and 3 →



1. Assessment of the children's learning

How well did any pupils in the class meet the learning objectives? – How do you know ?

Were there any significant responses from particular pupils?

Think about the quality of Children's work

What did you learn about the children?

How did they respond ?

What did you learn about the children's learning

2. Evaluation of teaching in enabling children to learn

How was this learning affected by my teaching?

Were there key points when I needed to adapt or should have adapted my teaching?

How effective was the lesson /activity plan?

Why did children respond as they did?

What did you learn about yourself as a teacher?

3. Points to be carried forward from 1 and 2 (so what do I need to do next?)

How will I improve my teaching next time?

What should I do to move the children's learning on?

Written feedback received from Lesson Observation



L.O. To plan an investigation into tooth decay.

Tooth Investigation



What did we want to know?

We wanted to find out _____

The equipment we used

What we did

First we will _____

Things we changed: _____

Things we kept the same: _____

What do we predict will happen?

We think that _____

After the Investigation

This is what happened...

Results

We found out that _____

Conclusion

We think this happened because _____

L.O. To plan an investigation into tooth decay.



Tooth Investigation

What do we want to know?

Write down what the purpose of the investigation is. What are you trying to find out?

The Equipment we used

Draw and label the things we used to do the investigation.

What we did

Explain exactly what we did to each tooth, step by step, using time sentence openers. E.g. First, next, then, after... There is no need to number your steps.

What do we predict will happen?

Write in sentences what you think will happen to each of the teeth.

After the Investigation



Draw what happened to the teeth over time.



Results

Write what you found out.

Conclusion

Why do you think the above things happened to each of the teeth? How can we prevent this happening to our own teeth?

Year 5 Tooth Investigation		
Pupil	Success Criteria	Teacher
	I can state a prediction	
	I can record what we did	
	I can identify things we changed/kept the same	
	I can use scientific language (fair-test, analyse, decay, dissolve, enamel, caffeine)	
	I can describe results	
	I can explain results	
	I can make a conclusion	
What you did well:   What to improve:		

Year 5 Tooth Investigation		
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What you did well:   What to improve:		