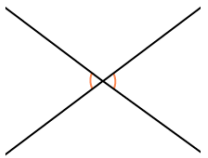
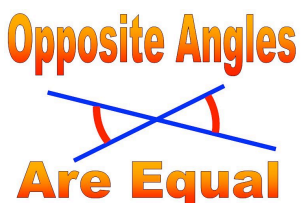

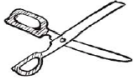



Maths Learning Design

Topic:	Shape and Space	Class:	Year 5 Year 6 (I)	Duration:	2 periods
Subtopic :	Angle – Vertical & Opposite Angles				
Content Learning Objectives:	Pupils should be able to: <ul style="list-style-type: none"> • recognise vertical and opposite angles. • identify vertical and opposite angles • apply properties of vertical and opposite angles to find unknown angles 				

Teaching & Learning Activities		Resources	Summary
<p>Tuning in (Introduction) <i>Determine prior knowledge and prepare pupils</i></p>	<ol style="list-style-type: none"> 1. Recall on naming angles, angles on a straight line (180°) and angles at a point (360°). 2. Using 2 satay sticks, teacher makes a cross shape and let the pupils to discuss about the angles 3. Teacher adjusts the satay sticks to create different angles. 	<ul style="list-style-type: none"> • Satay sticks 	
<p>Finding out & Sorting out (Lesson Development) <i>Time to locate, gather information, organise and process ideas.</i></p>	<ol style="list-style-type: none"> 1. Group the pupils into groups of three or four students. 2. Give the pupils Activity Sheet 1 3. Provide each group with a piece of paper. 4. Let the students to draw any cross lines – straight line (use ruler) on the paper provided. 5. One or two pupils will do the measurements using a protractor. 6. Let the students to explore more angles by drawing another cross lines. 	<ul style="list-style-type: none"> • ruler • Protractor 	At this stage, students will be able: <ul style="list-style-type: none"> ✓ to draw any cross line (straight line) ✓ to measure the angle using a protractor
<p>Making Conclusions <i>Draw conclusion and consolidate understanding</i></p>	<ol style="list-style-type: none"> 1. Pupils will discuss about their findings and explain why, using the concepts they have learnt like angles on a straight line. 2. Teacher concludes what they have found (vertical angle are angles that opposite to each other when 2 lines crossing) 		At this stage, students will be able: <ul style="list-style-type: none"> ✓ to explain that opposite angles have the same angle
<p>Go further (Enrichment) <i>Apply knowledge to develop further understanding</i></p>	<ol style="list-style-type: none"> 1. Ask the pupils to find things around school and identify the vertical opposite angles. <div style="display: flex; justify-content: space-around; align-items: center;">    </div> 2. Ask the pupils to practice more on finding angles base on application questions 	<ul style="list-style-type: none"> • Things around school 	At this stage, students will be able: <ul style="list-style-type: none"> ✓ name things around them that have opposite angle

Evaluation *(with respect to the Content Learning Objectives)*

What worked well?

What would make it even better next time?

ACTIVITY SHEET 1

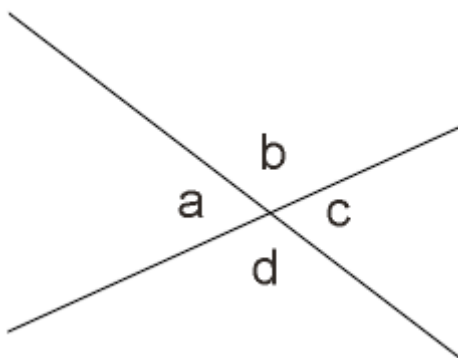
Group Name	
Topic	
Year	
Date	

Activity	Angle a	Angle b	Angle c	Angle d
1				
2				
3				
4				

Answer the questions:

- 1) How can you explain about those 4 angles?

- 2) What is your finding?



Vertical Angles (A)

Instructions: Use your knowledge of vertical angles to find the measurements for all angles.

