ACHIEVERS ARC

2027 P6 LESSON PLAN

SEMESTER 1 (NOV TO JAN)

LESSON	LESSON NAME	MODULE	LEARNING OBJECTIVES
1	Introduction to Circles	Geometry	Learn the properties of circles, to identify the radius and diameter of circles and how to solve for circumference and area of circles.
2	Fractions Calculations	Calculation	Perform calculation practices of fractions addition, subtraction, multiplication and division. Solve fractions equations involving BODMAS.
3	Whole Number Word Problems	Word Problem Solving	Solve common types of whole number word problems, including those relating to LCM and HCF, True/False/N.A.
4	Fractions I	Word Problem Solving	Learn to solve complex fraction application problems to hone practical application skills.
5	Fractions II	Word Problem Solving	Learn to solve complex fraction application problems to hone practical application skills.
6	Ratio I	Calculation	Familiarise the basics of ratio as a comparison tool, as well as how to apply ratio to compare between multiple variables.
7	Ratio II	Word Problem Solving	Learn how to use ratio to solve routine and non-routine complex ratio word problems.
8	Percentage I	Calculation	Learn to find the whole given a percentage of the whole and vice versa and determining percentage increase/decrease.
9	Percentage II	Word Problem Solving	Learn to solve basic and complex percentage application problems to hone practical application skills.

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2027 P6 LESSON PLAN

SEMESTER 2 (JAN TO APR)

LESSON	LESSON NAME	MODULE	LEARNING OBJECTIVES
1	Review Test		
2	Algebra Techniques	Word Problem Solving	Learning basic techniques of algebra and honing skills required to solving word problems.
3	Surface Area Problems and Area of Shapes	Geometry	Utilising surface areas to determining volumetric properties of figures.
4	Area and Circumference of Circles 1	Geometry	Learn to calculate the area and perimeter of composite figures that containing circles.
5	Symmetry and Basic Angles	Geometry	Identifying symmetrical figures and identifying methods to determine basic angles.
6	Angles in different figures	Geometry	Determining angles within different figures.
7	3D Shapes & Pie Charts	Geometry	Breakdown and analyse statistical data and convert into pie charts. Find angles and parts of a pie chart. Visualise and deconstruct 3D figures into 2D nets.
8	Volume of Cube/Cuboid	Geometry	Determining volume with known dimensions of figures.
9	Rate	Word Problem Solving	Learn about normalisation problems to cultivate their practical application skills.
10	Pattern Recognition	Counting	Visualising patterns within the multiple figures and finding methods for the calculation of Terms.
11	Unit Transfer Word Problems	Word Problem Solving	Learn how to multiply ratios to obtain proportionate values and calculate units of a whole.

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SEMESTER 3 (APR TO AUG)

LESSON	LESSON NAME	MODULE	LEARNING OBJECTIVES
1	Heuristics	Word Problem Solving	Be familiar with various heuristics concepts such as Gap and Difference, Grouping and Assumption Method.
2	External Changed	Word Problem Solving	Introduce the method to solve problems of profit and loss by drawing diagrams, exposing children to the beauty of real-world Math application.
3	Area and Circumference of Circles 2	Geometry	Addtional practice in calculating the area and perimeter of composite figures that contains circles.
4	Average and Pattern Recognition	Word Problem Solving	Solve complex questions related to the topics on average and pattern recognition.
5	Geometry	Geometry	Solve complex questions related to Geometry.
6	Mastering Fractions	Word Problem Solving	To recap the topic of Fractions and recollect Fractions Word Problem solving techniques for PSLE.
7	Mastering Ratio	Word Problem Solving	To recap the topic of Ratio and recollect Ratio Word Problem solving techniques for PSLE.
8	Mastering Percentage	Word Problem Solving	To recap the topic of Percentage and recollect Percentage Word Problem solving techniques for PSLE.
9	Mastering Area and Perimeter	Geometry	To recap the topic of Triangles and Quadrilaterals, practise visualising figures and learning quick methods to solving tricky questions for PSLE.
10	Mastering Circles	Geometry	To recap the topic of Circles, practise visualising figures and learning quick methods to solving tricky questions for PSLE.
11	Mastering Volume	Geometry	To recap the topic of Volume, practise visualising figures and learning quick methods to solving tricky questions for PSLE.
12	Mastering Angles	Geometry	To recap the topic on Angles, practise visualising figures and learning quick methods to solving tricky questions for PSLE.

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2027 P6 LESSON PLAN

SEMESTER 4 (AUG TO SEP)

LESSON	LESSON NAME	MODULE	LEARNING OBJECTIVES
1	Mastering Heuristics	Word Problem Solving	To dissect Heuristic question types quickly and recall quick solving techinques for questions tested in PSLE.
2	Mastering Geometry, Word Problems & Logical Reasoning	Word Problem Solving	To identify past year's tough PSLE questions and learn methods to dissect questions quickly.
3	PSLE Mock Test 1		
4	PSLE Mock Test 2		
5	PSLE Mock Test 3		
6	PSLE Mock Test 4		

ACHIEVERS ARC

2027 小六年级课程表

第 1 学期（11 月 至 1 月）

课	标题	模块	教学目标
1	圆和扇形基础	几何	学习圆的属性，辨别圆的半径和直径，以及如何解决圆的周长和面积。
2	分数四则运算	计算	分数四则运算和分数巧算的综合练习，在高年级进一步扎实分数计算技巧，提高运算能力。
3	整数应用题	应用题	解决常见类型的整数应用题，包括与最低公倍数和最高公因数、真/假/N.A. 相关的应用题。
4	分数应用题	应用题	学习解决复杂的分数应用问题，进一步了解分数的含义，完善分数计算，磨练实际应用能力。
5	分数应用题	应用题	学习解决复杂的分数应用问题，进一步了解分数的含义，完善分数计算，磨练实际应用能力。
6	比和比例	计算	学习比和比例的概念，了解比和比例的基本性质，理解应用题中比和比例代表的含义。
7	比例应用题	应用题	学习如何使用比和比例来解决常见和复杂的比例应用题，并结合上节课所学的方程技巧更快解决问题。
8	百分数认识	计算	了解百分数含义，熟练小数和百分数的相互转化，并将其应用于百分数的相关计算。
9	百分数应用题	应用题	在掌握百分数的基础上，理解应用题中百分数的含义，通过百分数、小数、分数的相关运算，解决实际应用问题。

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2027 小六年级课程表

第 2 学期（1 月 至 4 月）

课	标题	模块	教学目标
1	学期复习测试		
2	方程进阶	应用题	学习解决复杂方程的能力，熟练运用方程解复杂应用题。衔接初中代数相关知识。
3	立体图形的表面积	几何	学习立体图形表面积特征，进一步认识立体图形，并解决实际应用问题。
4	圆的面积和周长	几何	学习计算圆的面积和周长，在三角形、四边形的基础上完善平面几何知识体系。
5	轴对称和角度初步	几何	了解轴对称图形概念，学会找出图形的对称轴。引导孩子通过对称找角度关系。
6	角度进阶	几何	能够在复杂的形状中找到已知的角度，并利用角度之间的关系转化解决问题，提升几何认知能力。是**PSLE**重要考点。
7	**3D** 立体图形 **&** 圓形統計圖	几何	将立体图形转化为平面图形，研究转化过程中点、线、面的变化，培养孩子空间想象和动手能力。能够统计、分析数据，并转换为图表（饼状图），培养孩子信息收集和整理的能力。
8	立体图形的体积	几何	掌握基础立方体求体积的方法，并且能用体积反求未知数据，培养孩子空间想象能力。
9	速率	应用题	了解时间、工作效率、工作总量的三量关系，熟练运用公式解决实际问题 。
10	图形递推	计数	观察多组图形的规律，递推计算公式，提升归纳总结能力。
11	比例应用题	应用题	学习如何使用比和比例来解决常见和复杂的分数、比例应用题，并结合上节课所学的方程技巧更快解决问题。

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2027 小六年级课程表

第 3 学期（4 月 至 8 月）

课	标题	模块	教学目标
1	开放式问题	应用题	熟悉各种开放式的题目，如差，组合，假设法问题
2	盈亏问题	应用题	介绍通过画图解决盈亏问题的方法，让孩子们接触到现实世界的数学应用之美。感受真实世界的数学应用之美。
3	圆的面积和周长 (2)	几何	补充练习和圆的面积及周长相关的组合图形问题
4	平均和图形递推	行程	整理汇集与平均和模式规律相关的难题
5	几何	几何	整理汇集几何难题的常考类型及解题思路
6	分数应用题	应用题	回顾分数知识点及PSLE考试中分数应用题的解题技巧
7	比例应用题	应用题	回顾比例知识点及PSLE考试中比例应用题的解题技巧
8	百分数应用题	应用题	回顾百分数知识点及PSLE考试中百分数应用题的解题技巧
9	平面直线几何	几何	回顾三角形和四边形的相关知识点，观察图形特征以及学习PSLE考试中组合图形的解题技巧
10	平面曲线几何	几何	回顾有关圆的知识点，观察图形特征以及学习解决PSLE考试中与圆相关的难题
11	立体图形	几何	回顾体积相关的知识点，观察图形特点以及学习PSLE考试中涉及体积计算的难题解题技巧
12	角度综合	几何	回顾角度相关的知识点，练习并掌握PSLE考试中和角度相关的复杂图形解题技巧

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2027 小六年级课程表

第 4 学期（8 月 至 9 月）

课	标题	模块	教学目标
1	开放式问题	应用题	快速剖析启发式题型，回忆PSLE考试中的快速解题技巧。
2	综合训练	应用题	分析历年真题，学习快速拆解剖析问题的方法
3	PSLE 模拟考试 1		
4	PSLE 模拟考试 2		
5	PSLE 模拟考试 3		
6	PSLE 模拟考试 4		