

MISSION AND CORE VALUES

Raffles World Academy (RWA) was founded in September 2008. It is an independent co-educational private international day school operated by Innoventures Educational Investments LLC (aka Innoventures Education). The school began its history as Raffles International School (West Campus) and changed its name to Raffles World Academy in September 2012. The Academy is authorised to provide IBPYP in KG1-G5, IBMYP curriculum in G6-10 and IB Diploma and Courses to G11-12. It is an IB World School and a centre for Cambridge International Examinations. The school also provides other programmes including College Board PSAT and SAT, Trinity, and Mother Tongue Ianguage programmes including CNED and DELF for French. Raffles World Academy is regulated by the Dubai Knowledge and Human development Authority (KHDA).

Our Guiding Statements

Our Vision

Providing world class education.

Our Mission

To empower students with a rigorous, holistic and international education for success in an ever-changing world.

Our Philosophy

To be recognized by the success of our students in achieving their personal goals To make student development the centre of all school decisions To aspire to the highest internationally recognized performance standards To build and celebrate a culture based on internationalism To enable the staff to become life-long learners through the development of their professional practice

> **Our Core Values** Achievement | Collaboration | Integrity |Respect |Responsibility

The RWA Motto

Towards Excellence

The RWA Mascot

Arabian Stallion

The RWA definition of International-Mindedness:

International Mindedness begins when we are open to and curious about the world in which we live, respect our own culture and want to know about the culture of others. We progress to acknowledge our common humanity and to recognize and value diversity existing within our communities, whether local, national or global. We exercise our individual and collective responsibilities as world citizens to safeguard the planet we share, promote peace, challenge injustice and engage in improving welfare for all, especially the disadvantaged. We seek to develop a deep understanding of the complexity, diversity and motives that underpin human actions and interactions. We strive to foster mutual respect, dialogue and cooperation through being open and willing to see the world through the lens of all those who share it with us. As an IB school, international-mindedness is embodied in our implementation of the IB Learner Profile, which challenges students to be communicators in multiple languages, principled in their promotion of international justice, risk-takers in the spirit of exploring new cultures, knowledgeable about world issues, thinkers about complex problems, caring and committed to service, inquirers about the world, open-minded toward other perspectives, balanced in their approach to life, and reflective about their own personal development.

IB MISSION STATEMENT

IB mission statement The International Baccalaureate aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect. To this end the organization works with schools, governments and international organizations to develop challenging programmes of international education and rigorous assessment. These programmes encourage students across the world to become active, compassionate and lifelong learners who understand that other people, with their differences, can also be right.

IB Learner Profile

The aim of all IB programmes is to develop internationally minded people who, recognizing their common humanity and shared guardianship of the planet, help to create a better and more peaceful world. IB learners strive to be:

Inquirers: They develop their natural curiosity. They acquire the skills necessary to conduct inquiry and research and show independence in learning. They actively enjoy learning and this love of learning will be sustained throughout their lives.

Knowledgeable: They explore concepts, ideas and issues that have local and global significance. In so doing, they acquire in-depth knowledge and develop understanding across a broad and balanced range of disciplines. Thinkers: They exercise initiative in applying thinking skills critically and creatively to recognize and approach complex problems, and make reasoned, ethical decisions.

Communicators: They understand and express ideas and information confidently and creatively in more than one language and in a variety of modes of communication. They work effectively and willingly in collaboration with others.

Principled: They act with integrity and honesty, with a strong sense of fairness, justice and respect for the dignity of the individual, groups and communities. They take responsibility for their own actions and the consequences that accompany them.

Open-minded: They understand and appreciate their own cultures and personal histories, and are open to the perspectives, values and traditions of other individuals and communities. They are accustomed to seeking and evaluating a range of points of view, and are willing to grow from the experience.

Caring: They show empathy, compassion and respect towards the needs and feelings of others. They have a personal commitment to service, and act to make a positive difference to the lives of others and to the environment.

Risk-takers: They approach unfamiliar situations and uncertainty with courage and forethought, and have the independence of spirit to explore new roles, ideas and strategies. They are brave and articulate in defending their beliefs.

Balanced: They understand the importance of intellectual, physical and emotional balance to achieve personal well-being for themselves and others.

Reflective: They give thoughtful consideration to their own learning and experience. They are able to assess and understand their strengths and limitations in order to support their learning and personal development.

nsibility for their own actions and the consequences ommunities. They are accustomed to seeking and

ence to the lives of others and to the environment. es. They are brave and articulate in defending their

Phase 1

Overall Expectation Phase 1: Learners will understand that shapes have characteristics that can be described and compared. They will understand and use common language to describe paths, regions and boundaries of their immediate environment.

PYP Conceptual Understanding:

- Shapes can be described and organized according to their properties.
- Objects in our immediate environment have a position in space that can be described according to a point of reference.

Learning Outcomes:

P1 P2 P3 P4 P5 P6		P
---	--	---

P8

KG	P1:	P2:	P3:	P5:	P6:
1	 Notices simple shapes and 	 Shows an interest in shape and space 	 Beginning to use mathematical 	Children use evervdav language	Children recognize, create and
	patterns in	by playing with	names for 'solid'	to talk about size,	describe patterns
	pictures.	shapes or making	3D shapes and	weight, capacity,	• C: I can understand
	Beginning	arrangements with	'flat' 2D shapes,	positions, distance,	that patterns can
	to categorise objec	objects.	and mathematical	time and money to	be repetition of
	ts according to	• C: I can use shapes	terms to describe	compare quantities	shapes, colors,
	shape or size	• T: I can show an	• C: L can understand	solve problems	• T. I can recognize
	 Begins to use the 	interest in shape	that 2D and 3D	• C: I can understand	create and describe
	language of size.	and space by	shapes have	that common	patterns
		playing with shapes	characteristics that	language can be	• A: I can identify
		or making	can be described	used to describe	patterns in real-life
		objects	 T: I can begin to use 	capacity positions	natterns using real-
		• A: I can use shapes	mathematical	distance, time and	life objects
		creatively to build,	names for 'solid' 3D	money	•
		design or make	shapes and 'flat' 2D	• T: I can use	
		patterns Shows awareness	shapes, and mathematical terms	everyday language	
		of similarities of	to describe shapes	weight, canacity.	
		shapes in the	• A: I can use	positions, distance,	
		environment.	language to identify	time and money to	
		• C: I understand	2D and 3D shapes in	compare quantities	
		snapes exist in a	a real-life environment	ana objects ana to solve problems	
		environment	chivitoninene	 A: I can apply 	
		• T: I can show		language to	
		awareness of	Selects a particular	compare quantities	
		similarities of	named shape.	and objects to solve	
		environment	language used to	•	
		• A: I can organize	identify shapes		
		real-life objects in	• T: I can select a		
		an environment by	particular named		
		their shape	snape.		
		Uses positional	shapes of real-life		
		language.	objects		
		C: I can understand			
		that common			
		used to describe			
		position and			
		direction, for			
		example, inside,			
		below next to			
		behind, in front of.	- Can describe their		
		up, down.	such as 'behind' or		
		• T: I can use	'next to'.		
		positional language.	• C: I can understand		
		ο τ can apply common language	that common		
		used to describe	language can be		
		position to solve	position and		
		problems in real-	direction, for		
		uje	example, inside,		
		• Uses shapes	outside, above,		
		appropriately for	behind, in front of		
		tasks.	up, down.		
		- Beginning to talk	• T: I can describe my		
		evervdav objects	relative position		
		e.g. 'round' and	such as "penina" or 'next to'		
		'tall'	• As Learn and .		

D	7	•
Г	1	•

- Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer
- C: I can use shapes to understand ٠ quantities
- T: I can use quantities and ٠ objects, they add and subtract two single-digit numbers and count on or back to find the answer
- A: I can add and subtract real-life objects to solve • problems •

- P8:
 Children explore characteristics of everyday objects and shapes and use mathematical language to describe them
 - C: I can understand that 2D and 3D shapes have characteristics that can be described and
- be described and compared T: I can explore characteristics of everyday objects and shapes and use mathematical language to describe them
- A: I can identify 2D and 3D shapes in a real-life environment

Phase 2

Overall Expectation Phase 2: Learners will continue to work with 2D and 3D shapes, developing the understanding that shapes are classified and named according to their properties. They will understand that examples of symmetry and transformations can be found in their immediate environment. Learners will interpret, create and use simple directions and specific vocabulary to describe paths, regions, positions and boundaries of their immediate environment.

PYP Conceptual Understandings:

- Shapes are classified and named according to their properties.
- Some shapes are made up of parts that repeat in some way.
- Specific vocabulary can be used to describe an object's position in space.

Learning Outcomes:

Shape and Space KG2 Shape and Space: Shape Recognize and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cuboids, pyramids and spheres. · C: I can understand that there are relationships among and between 2D and 3D shapes · T: I can recognize and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cuboids, pyramids and spheres. · A: I can analyze and use what they know about 3D shapes to describe and work with 2D shapes Describe position, direction and movement, including whole, half, quarter and three quarter turns · C: I can understand that directions can be used to describe pathways, regions, positions and boundaries of their immediate environment. · T: I can describe position, direction and movement, including whole, half, quarter and three quarter turns · C: I can understand that directions can be used to describe pathways, regions, positions and boundaries of their immediate environment. · T: I can describe position, direction and movement, including whole, half, quarter and three quarter turns · C: I can understand the properties of 2D and 3D shapes before the mathematical vocabulary associated with shapes makes sense to them. Through creating and mar vocabulary with more formal mathematical vocabulary and begin to appreciate the need for this precision Shape and Space Shape and Space		
KG2 Shape and Space: Shape Recognize and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cuboids, pyramids and spheres. • C: I can understand that there are relationships among and between 2D and 3D shapes • T: I can recognize and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cuboids, pyramids and spheres. • A: I can analyze and use what they know about 3D shapes to describe and work with 2D shapes Describe position, direction and movement, including whole, half, quarter and three quarter turns • C: I can understand that directions can be used to describe pathways, regions, positions and boundaries of their immediate environment. • T: I can describe position, direction and movement, including whole, half, quarter and three quarter turns • A: I can interpret and use simple directions, describing paths, regions, positions and boundaries of their immediate environment. • T: I can interpret and use simple directions, describing paths, regions, positions and boundaries of their immediate environment. • Notes • Learners need to understand the properties of 2D and 3D shapes before the mathematical vocabulary associated with shapes makes sense to them. Through creating and mar vocabulary with more formal mathematical vocabulary and begin to appreciate the need for this precision Shape and Space		Shape and Space
 Recognize and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cuboids, pyramids and spheres. C: I can understand that there are relationships among and between 2D and 3D shapes T: I can recognize and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cuboids, pyramids and spheres. A: I can analyze and use what they know about 3D shapes to describe and work with 2D shapes Describe position, direction and movement, including whole, half, quarter and three quarter turns C: I can understand that directions can be used to describe pathways, regions, positions and boundaries of their immediate environment. T: I can describe position, direction and movement, including whole, half, quarter and three quarter turns A: I can interpret and use simple directions, describing paths, regions, positions and boundaries of their immediate environment. Notes Learners need to understand the properties of 2D and 3D shapes before the mathematical vocabulary associated with shapes makes sense to them. Through creating and mar vocabulary with more formal mathematical vocabulary and begin to appreciate the need for this precision 	KG2	Shape and Space: Shape
Shape and Space		 Recognize and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cuboids, pyramids and spheres. C: I can understand that there are relationships among and between 2D and 3D shapes T: I can recognize and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cuboids, pyramids and spheres. A: I can analyze and use what they know about 3D shapes to describe and work with 2D shapes Describe position, direction and movement, including whole, half, quarter and three quarter turns C: I can understand that directions can be used to describe pathways, regions, positions and boundaries of their immediate environment. T: I can describe position, direction and movement, including whole, half, quarter and three quarter turns A: I can interpret and use simple directions, describing paths, regions, positions and boundaries of their immediate environment. T: I can interpret and use simple directions, describing paths, regions, positions and boundaries of their immediate environment. Notes Learners need to understand the properties of 2D and 3D shapes before the mathematical vocabulary associated with shapes makes sense to them. Through creating and mar vocabulary with more formal mathematical vocabulary and begin to appreciate the need for this precision
		Shape and Space

nipulating shapes, learners align their natural

Shape and Space: Properties of Shapes
Shape and Space: Properties of Shapes Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line. C: I can understand the properties of 2D shapes, including the number of sides and line symmetry in a vertical line. A: I can identify and describe 2D shapes found in a real-life environment Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces. C: I can understand the properties of 3D shapes, including the number of edges, vertices and faces. C: I can understand the properties of 3D shapes, including the number of edges, vertices and faces. T: I can identify and describe 2D shapes found in a real-life environment Identify 2D shapes on the surface of 3D shapes, including the number of edges, vertices and faces. A: I can identify and describe 2D shapes found in a real-life environment Identify 2D shapes on the surface of 3D shapes, including the number of edges, vertices and faces. A: I can identify and describe 2D shapes found in a real-life environment Identify 2D shapes on the surface of 3D shapes, including the number of edges, vertices and faces. A: I can identify and describe 2D shapes found in a real-life environment Identify 2D shapes on the surface of 3D shapes, ifor example, a circle on a cylinder and a triangle on a pyramid.] C: I can understand that there are relationships among and between 2D and 3D shapes T: I can identify 2D shapes and everyday objects. C: I can understand that 2D and 3D shapes can be created by putting together and/or taking apart other shapes T: I can identify 2D and 3D shapes found in everyday reaters. A: I can identify 2D and 3D shapes found in everyday items - natural and manmade Order and arrange combinations of mathematical objects in patterns
 A: I can put common everyday shapes into patterns and sequences Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in te turns (clockwise and anticlockwise) C: L can understand that directions can be used to describe pathways, regions, positions and boundaries of their immediate environment.
 T: I can use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turr three-quarter turns (clockwise and anticlockwise A: I can interpret and use simple directions, describing paths, regions, positions and boundaries of their immediate environment.
 Notes Learners need to understand the properties of 2D and 3D shapes before the mathematical vocabulary associated with shapes makes sense to them. Through creating and m vocabulary with more formal mathematical vocabulary and begin to appreciate the need for this precision.

rms of right angles for quarter, half and three-quarter

and in terms of right angles for quarter, half and

anipulating shapes, learners align their natural

Overall Expectation Phase 3: Learners will sort, describe and model regular and irregular polygons, developing an understanding of their properties. They will be able to describe and model congruency and similarity in 2D shapes. Learners will continue to develop their understanding of symmetry, in particular reflective and rotational symmetry. They will understand how geometric shapes and associated vocabulary are useful for representing and describing objects and events in realworld situations.

PYP Conceptual Understandings:

- Changing the position of a shape does not alter its properties. •
- Shapes can be transformed in different ways. ٠
- Geometric shapes and vocabulary are useful for representing and describing objects and events in real-world situations. •

Learning Outcomes

	Shape and Space
Gra de 2	 Shape and Space: Properties of Shapes Recognize angles as a property of shape or a description of turn. C: I can understand an angle as a measure of rotation T: I can recognize angles as a property of shape or a description of turn. A: I can apply my knowledge of angles to identify properties of shapes Identify right angles, recognize that two right angles make a half-term, three make three quarters of a turn and four a complete turn; identify whether angles are greater C: I can understand an angle as a measure of rotation T: I can identify infit angles, recognize that two right angles make a half-term, three make three quarters of a turn and four a complete turn; identify whether angles are greater C: I can understand lines are continuous and can intersect or stay separate C: I can identify instructual lines and pairs of perpendicular and parallel lines. C: I can identify instructual lines and pairs of perpendicular and parallel lines. C: I can identify hapes and make 3- D shapes using modelling materials. C: I can identify bapes shart make 3- D shapes in greater 3D shapes using modelling materials. C: I can identify bapes shart make 3- D shapes in ling excilution gregular and irregular polygons, using geometrical vocabulary Recognize 3-D shapes in different 3D shapes sup models. T: I can recognize 3-D shapes in different ations and describe them A: I can analyze and describe 3D shapes using geometrical vocabulary Notes Computer and web-based applications can be used to explore shape and space concepts such as symmetry, angles and coordinates. The units of inquiry can provide authentic contexts for developing understanding of concepts relating to location and directions.
	Shape and Space

than or less than a right-angle.

are greater than or less than a right-angle.

a	Shape and Space: Angles
: 5	Identify acute and obtuse angles and compare and order angles up to two right angles by size.
	• C: I can understand an angle as a measure of rotation
	• T: I can identify acute and obtuse angles and compare and order angles up to two right angles by size.
	• A: I can identify, compare and order angles that appear in a real-life environment
	Shape and Space: Shape and Symmetry
	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
	C: I can understand the properties of regular and irregular geometric shapes
	 T: I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. A: L can identify describe and model congruency and similarity in 2D shapes
	Identify lines of symmetry in 2D shapes presented in different orientations
	• C: I can understand that lines and axes of reflective and rotational symmetry assist with the construction of shapes
	 T: I can identify lines of symmetry in 2D shapes presented in different orientations.
	• A: recognize and explain symmetrical patterns in the environment
	Complete an simple symmetric figure with respect to a specific line of symmetry
	• C: I can understand that lines and axes of reflective and rotational symmetry assist with the construction of shapes
	• T: I can complete an simple symmetric figure with respect to a specific line of symmetry
	• A: recognize and explain symmetrical patterns in the environment
	Shape and Space: Position and Direction
	Describe positions on a 2D grid as coordinates in the first guadrant.
	C: I can understand that positions can be represented by coordinates on a grid
	• T: I can describe positions on a 2D grid as coordinates in the first quadrant.
	 A: I can apply knowledge of position and grids to problem-solving situations.
	Describe movements between positions as translations of a given unit to the left/ right and up/ down.
	• C: I can understand that directions for location can be represented by coordinates on a grid
	• I: I can describe movements between positions as translations of a given unit to the left/ right and up/ down.
	A: I call apply knowledge of transformations to problem-solving situations. Plot specified points and draw sides to complete a given polygon
	• C: L can understand that positions can be represented by coordinates on a grid
	 Tel can plot specified points and draw sides to complete a given polygon
	 A: I can apply knowledge of position and grids to problem-solving situations.
	Notes
	• Computer and web-based applications can be used to explore shape and space concepts such as symmetry, angles and coordinates.

The units of inquiry can provide authentic contexts for developing understanding of concepts relating to location and directions.

Overall Expectation Phase 4: Learners will understand the properties of regular and irregular polyhedra. They will understand the properties of 2D shapes and understand that 2D representations of 3D objects can be used to visualize and solve problems in the real world, for example, through the use of drawing and modelling. Learners will develop their understanding of the use of scale (ratio) to enlarge and reduce shapes. They will apply the language and notation of bearing to describe direction and position.

PYP Conceptual Understandings:

- Manipulation of shape and space takes place for a particular purpose.
- Consolidating what we know of geometric concepts allows us to make sense of and interact with our world.
- Geometric tools and methods can be used to solve problems relating to shape and space.

Learning Outcomes:

	Shape and Space
Gra de 4	 Shape and Space: Angles Know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles. C: I can understand an angle as a measure of rotation. T: I know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles. A: I can identify, estimate and compare types of angles in a read-life environment Draw given angles and measure them in degrees (). C: I can select the appropriate tools to complete measurement and tools to solve problems in read-life situations Hentity: angles and nessure them in degrees (). A: I can select and use appropriate units of measurement and tools to solve problems in read-life situations Hentity: angles at a point and one whole turn (total 360'), angles at a point and one whole turn (total 360') other multiples of90° C: I can understand an angle as a measure of ortation. T: I know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles. A: I can identify angles, sincluding cubes and other cuboids, from 2D representations. C: I can understand that 2D representations of 3D objects can be used to visualize and solve problems T: I chow appes, including cubes and other cuboids, from 2D representations. A: I can use the properties of results rectangles T: I can use the properties of results rectangles C: I can understand the properties of all objects can be used to visualize and angles. C: I can use the properties of results rectangles T: I can use the properties of results rectangles T: I can use the properties of results rectangles T: I can use the properties of results on reasoning about equal sides and angles. C: I can use the properties of results on treasoning about equal sides and angles. C: I can use there properties of rectangles to deduce related facts and find missing lengths and
	Shape and Space

ged

not changed

derstanding of the concepts embedded in the problem

Gra do 5	Shape and Space: Properties of Shapes
de 5	 Draw 2D shapes using given dimensions and angles. C: I can understand the properties of regular and irregular polyhedral T: I can draw 2D shapes using given dimensions and angles. A: I can use geometric vocabulary when describing shape and space in mathematical situations and beyond Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. C: I can understand the properties of regular and irregular polyhedral T: I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. A: I can use geometric vocabulary when describing shapes and there properties in a real-life environment Recognize angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. C: I can understand an angle as a measure of rotation.
	 T: I can recognize angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. A: I can recognize, measure and find missing angles in our real-life environment
	Shape and Space: Position and Direction
	 Describe positions on the full coordinate grid (all four quadrants). C: I can understand systems for describing position and direction T: I can describe positions on the full coordinate grid (all four quadrants). A: I can apply the language and notation of bearing to describe direction and position Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. C: I can understand systems for describing position and direction T: I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes. A: I can apply the language and notation of bearing to describe direction T: I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes. A: I can apply the language and notation of bearing to describe direction
	 Notes Tools such as compasses and protractors are commonly used to solve problems in real-life situations. However, care should be taken to ensure that students have a strong to ensure meaningful engagement with the tools and full understanding of the solution.

g understanding of the concepts embedded in the problem