IB Primary Years Programme Mathematics Scope and Sequence by Haese Mathematics (Currency 1-3)

Last updated: 20 June 2025

This document summarises how our **Mathematics PYP** currency worksheets align with the International Baccalaureate Primary Years Programme Mathematics learning continuums.

Yellow text indicates material which only appears in the Teacher Resource.

Learning Outcome	PYP 1	PYP 2	PYP 3
Measurement			
Conceptual understandings			
Phase 2: - Standard units allow us to have a common language to identify, compare, order and sequence objects and events. - We use tools to measure the attributes of objects and events. - Estimation allows us to measure with different levels of accuracy.			**Australian dollar** Discussion: page 6 **Canadian dollar** Discussion: page 6 **Swiss franc** Discussion: page 6 **Chinese yuan** Discussion: page 6 **Euro** Discussion: page 6 **United Kingdom pound** Discussion: page 6 **Hong Kong dollar** Discussion: page 6 **Indian rupee** Discussion: page 8 **Jordanian dinar** Discussion: page 6 **Japanese yen** Discussion: page 7 **Qatari riyal** Discussion: page 6 **Saudi riyal** Discussion: page 6 **United States dollar** Discussion: page 6
Phase 3: - Objects and events have attributes that can be measured using appropriate tools. - Relationships exist between standard units that measure the same attributes.	**Australian dollar** Theory: page 8 **Canadian dollar** Theory: page 6 **Swiss franc** Theory: page 7 **Chinese yuan** Theory: page 9 **Euro** Theory: page 8 **United Kingdom pound** Theory: page 8 **Hong Kong dollar** Theory: page 8 **Jordanian dinar** Theory: page 5, 6 **Qatari riyal** Theory: page 10 **Saudi riyal** Theory: page 7 **United States dollar** Theory: page 9	**Australian dollar** Theory: page 5 **Canadian dollar** Theory: page 5 **Swiss franc** Theory: page 5 **Chinese yuan** Theory: page 7 **Euro** Theory: page 5 **United Kingdom pound** Theory: page 5 **Hong Kong dollar** Theory: page 5 **Jordanian dinar** Theory: page 3, 4 **Qatari riyal** Theory: page 7 **Saudi riyal** Theory: page 5 **United States dollar** Theory: page 7	**Australian dollar** Theory: page 6 Exercise: 14 **Canadian dollar** Theory: page 6 Exercise: 15 **Swiss franc** Theory: page 6 Exercise: 14 **Chinese yuan** Theory: page 6 Exercise: 14 Discussion: page 13 **Euro** Theory: page 6 Exercise: 14 **United Kingdom pound** Theory: page 6 Exercise: 14 **Hong Kong dollar** Theory: page 6 Exercise: 14 **Jordanian dinar** Theory: page 6 Exercise: 14 **Qatari riyal** Theory: page 6 Exercise: 14 **Saudi riyal** Theory: page 6 Exercise: 15 **United States dollar** Theory: page 6 Exercise: 14

Learning Outcome	PYP 1	PYP 2	PYP 3
Constructing meaning			
Phase 1: • understand that attributes of real objects can be compared and described, for example, longer, shorter, heavier, empty, full, hotter, colder • understand that events in daily routines can be described and sequenced, for example, before, after, bedtime, storytime, today, tomorrow.	**Australian dollar** Discussion: page 13 **Canadian dollar** Discussion: page 11 **Swiss franc** Discussion: page 12 **Euro** Discussion: page 13 **United Kingdom pound** Discussion: page 13 **Hong Kong dollar** Discussion: page 13 **Indian rupee** Discussion: page 14 **Jordanian dinar** Discussion: page 12 **Qatari riyal** Discussion: page 11 **Saudi riyal** Discussion: page 12 **United States dollar** Discussion: page 11		
Phase 2: • understand the use of standard units to measure, for example, length, mass, money, time, temperature • understand that tools can be used to measure • understand that calendars can be used to determine the date, and to identify and sequence days of the week and months of the year • understand that time is measured using universal units of measure, for example, years, months, days, hours, minutes and seconds.	**Australian dollar** Theory: page 1, 8, 9, 12 Exercise: 3, 4, 8 – 11 Discussion: page 10 **Canadian dollar** Theory: page 1, 6, 7, 10 Exercise: 3, 4, 9 – 12 Discussion: page 6, 8 **Swiss franc** Theory: page 1, 7, 8, 11 Exercise: 3, 4, 8, 10 – 12 Discussion: page 9 **Chinese yuan** Theory: page 1, 2, 9, 10 Exercise: 3, 4, 6, 10 – 12 Discussion: page 5 **Euro** Theory: page 1, 8, 9, 12 Exercise: 3, 4, 9 – 11 Discussion: page 10 **United Kingdom pound** Theory: page 1, 8, 9, 12 Exercise: 3, 4, 8 – 11 Discussion: page 10 **Hong Kong dollar** Theory: page 1, 8, 9, 12 Exercise: 3, 4, 8 – 11 **Indian rupee** Theory: page 1, 7, 13 Exercise: 3, 4, 8, 9 Discussion: page 9 **Jordanian dinar** Theory: page 1, 5 – 7, 11 Exercise: 3, 4, 9, 12, 13, 15, 17 **Japanese yen** Theory: page 1, 2, 9 Exercise: 3, 4, 8 Discussion: page 11 **Qatari riyal** Theory: page 1, 7, 10, 11 Exercise: 3, 4, 9, 10, 13, 14 **Saudi riyal** Theory: page 1, 7, 8, 11 Exercise: 3, 4, 9 – 12 Discussion: page 9 **United States dollar** Theory: page 1, 6, 9, 10 Exercise: 3, 4, 9, 10, 13, 14 Discussion: page 10	**Australian dollar** Theory: page 1, 5, 7, 9 Exercise: 9, 12, 19 Puzzle: page 5 **Canadian dollar** Theory: page 1, 5, 6, 8 Exercise: 11, 13, 20 Discussion: page 6 Puzzle: page 5 **Swiss franc** Theory: page 1, 5, 7, 9 Exercise: 10, 13, 20 Puzzle: page 7 **Chinese yuan** Theory: page 1, 2, 7 Exercise: 6, 11, 12, 17 Puzzle: page 6 **Euro** Theory: page 1, 5, 7, 9 Exercise: 9, 12, 19 Puzzle: page 6 **United Kingdom pound** Theory: page 1, 5, 7, 9 Exercise: 9, 12, 19 Puzzle: page 5 **Hong Kong dollar** Theory: page 1, 5, 7, 9 Exercise: 9, 12, 19 Discussion: page 9 Puzzle: page 6 **Indian rupee** Theory: page 1, 5, 9 Exercise: 9, 19 Puzzle: page 5 **Jordanian dinar** Theory: page 1, 3, 4, 7, 9 Exercise: 7, 11, 12, 16, 23 Puzzle: page 7 **Japanese yen** Theory: page 1, 6, 8 Exercise: 8, 11 **Qatari riyal** Theory: page 1, 5, 7, 9 Exercise: 11, 14, 21 Puzzle: page 5 **Saudi riyal** Theory: page 1, 5, 7, 9 Exercise: 10, 13, 20 Puzzle: page 7 **United States dollar** Theory: page 1, 5, 7, 8 Exercise: 11, 14, 20 Discussion: page 8 Puzzle: page 5	**Australian dollar** Theory: page 1, 4, 6 Exercise: 11, 12, 23 **Canadian dollar** Theory: page 1, 4, 6 Exercise: 12, 13, 24 **Swiss franc** Theory: page 1, 4, 6 Exercise: 11, 12, 23 **Chinese yuan** Theory: page 1, 6 Exercise: 3, 11, 12, 22 Discussion: page 13 **Euro** Theory: page 1, 4, 6 Exercise: 11, 12, 23 Discussion: page 5 **United Kingdom pound** Theory: page 1, 4, 6 Exercise: 11, 12, 23 **Hong Kong dollar** Theory: page 1, 4, 6 Exercise: 11, 12, 23 **Indian rupee** Theory: page 1, 4 Exercise: 15, 16 **Jordanian dinar** Theory: page 1, 4, 6 Exercise: 11, 12, 23 **Japanese yen** Theory: page 1, 5 Exercise: 3, 16 **Qatari riyal** Theory: page 1, 4, 6 Exercise: 11, 12, 23 **Saudi riyal** Theory: page 1, 4, 6 Exercise: 12, 13, 24 **United States dollar** Theory: page 1, 4, 6 Exercise: 11, 12, 23

Learning Outcome	PYP 1	PYP 2	PYP 3
Phase 3: • understand the use of standard units to measure perimeter, area and volume • understand that measures can fall between numbers on a measurement scale, for example, 3½ kg, between 4 cm and 5 cm • understand relationships between units, for example, metres, centimetres and millimetres • understand an angle as a measure of rotation.	**Australian dollar** Theory: page 8 / Exercise: 9, 10 **Canadian dollar** Theory: page 6 / Exercise: 10, 11 / Discussion: page 6 **Swiss franc** Theory: page 7 / Exercise: 10, 11 **Chinese yuan** Theory: page 9 / Exercise: 11, 12 **Euro** Theory: page 8 / Exercise: 9, 10 **United Kingdom pound** Theory: page 8 / Exercise: 9, 10 **Hong Kong dollar** Theory: page 8 / Exercise: 9, 10 **Jordanian dinar** Theory: page 5, 6 / Exercise: 9, 12, 17 **Qatari riyal** Theory: page 10 / Exercise: 13, 14 **Saudi riyal** Theory: page 7 / Exercise: 10, 11 **United States dollar** Theory: page 9 / Exercise: 13, 14 / Discussion: page 10	**Australian dollar** Theory: page 5 / Exercise: 9 **Canadian dollar** Theory: page 5 / Exercise: 11 / Discussion: page 6 **Swiss franc** Theory: page 5 / Exercise: 10 **Chinese yuan** Theory: page 7 / Exercise: 11, 12 **Euro** Theory: page 5 / Exercise: 9 **United Kingdom pound** Theory: page 5 / Exercise: 9 **Hong Kong dollar** Theory: page 5 / Exercise: 9 **Jordanian dinar** Theory: page 3, 4 / Exercise: 7, 11, 12 **Qatari riyal** Theory: page 7 / Exercise: 14 **Saudi riyal** Theory: page 5 / Exercise: 10 **United States dollar** Theory: page 7 / Exercise: 14 / Discussion: page 8	**Australian dollar** Theory: page 6, 10 / Exercise: 11, 12, 14, 16 – 21 **Canadian dollar** Theory: page 6, 9 / Exercise: 12, 13, 15, 17 – 22 **Swiss franc** Theory: page 6, 10 / Exercise: 11, 12, 14, 16 – 21 **Chinese yuan** Theory: page 6, 8 / Exercise: 11, 12, 14, 16 – 20 / Discussion: page 13 **Euro** Theory: page 6, 10 / Exercise: 11, 12, 14, 16 – 21 **United Kingdom pound** Theory: page 6, 10 / Exercise: 11, 12, 14, 16 – 21 **Hong Kong dollar** Theory: page 6, 10 / Exercise: 11, 12, 14, 16 – 21 **Jordanian dinar** Theory: page 6, 10 / Exercise: 11, 12, 14, 16 – 21 **Qatari riyal** Theory: page 6, 10 / Exercise: 11, 12, 14, 16 – 21 **Saudi riyal** Theory: page 6, 10 / Exercise: 12, 13, 15, 17 – 22 **United States dollar** Theory: page 6, 9 / Exercise: 11, 12, 14, 16 – 21

Transferring meaning into symbols

Learning Outcome	PYP 1	PYP 2	PYP 3
Phase 1: • identify, compare and describe attributes of real objects, for example, longer, shorter, heavier, empty, full, hotter, colder • compare the length, mass and capacity of objects using nonstandard units • identify, describe and sequence events in their daily routine, for example, before, after, bedtime, storytime, today, tomorrow.	**Australian dollar** Discussion: page 13 **Canadian dollar** Discussion: page 11 **Swiss franc** Discussion: page 12 **Euro** Discussion: page 13 **United Kingdom pound** Discussion: page 13 **Hong Kong dollar** Discussion: page 13 **Indian rupee** Discussion: page 14 **Jordanian dinar** Discussion: page 12 **Qatari riyal** Discussion: page 11 **Saudi riyal** Discussion: page 12 **United States dollar** Discussion: page 11		
Phase 2: • estimate and measure objects using standard units of measurement: length, mass, capacity, money and temperature • read and write the time to the hour, half hour and quarter hour • estimate and compare lengths of time: second, minute, hour, day, week and month.	**Australian dollar** Exercise: 5 – 7, 9, 10, 12, 13 / Activity: page 14 / Puzzle: page 6, 11, 12 **Canadian dollar** Exercise: 5 – 8, 10, 11, 13, 14 / Activity: page 12 / Puzzle: page 5, 9, 10 **Swiss franc** Exercise: 5 – 7, 9 – 11, 13, 14 / Activity: page 13 / Puzzle: page 6, 11 **Chinese yuan** Exercise: 5, 7 – 9, 11, 12 / Activity: page 12 / Puzzle: page 8, 10 **Euro** Exercise: 5 – 7, 9, 10, 12, 13 / Activity: page 14 / Puzzle: page 6, 11, 12 **United Kingdom pound** Exercise: 5 – 7, 9, 10, 12, 13 / Activity: page 14 / Puzzle: 6, 11, 12	**Australian dollar** Theory: page 1 / Exercise: 3 – 11, 13, 14, 16 / Discussion: page 6 / Activity: page 12 / Game: page 6 **Canadian dollar** Theory: page 2 / Exercise: 5 – 12, 14, 15, 17 / Discussion: page 6 / Activity: page 11 / Game: page 6 **Swiss franc** Theory: page 1 / Exercise: 3 – 12, 14, 15, 17 / Discussion: page 6 / Activity: page 12 / Game: page 7 **Chinese yuan** Theory: page 2 / Exercise: 3 – 5, 7 – 12, 14 / Activity: page 10	**Australian dollar** Theory: page 7, 10 / Exercise: 3 – 10, 12, 13, 15, 16, 19 – 21, 25 / Discussion: page 6 / Puzzle: page 9 **Canadian dollar** Theory: page 7, 9 / Exercise: 4 – 11, 13, 14, 16, 17, 20 – 22, 26 / Discussion: page 6 / Puzzle: page 9 **Swiss franc** Theory: page 7, 10 / Exercise: 3 – 10, 12, 13, 15, 16, 19 – 21, 25 / Discussion: page 6 / Puzzle: page 9

Learning Outcome	PYP 1		PYP 2		PYP 3	
	Hong Kong dollar	Exercise: 5 – 7, 9, 10, 12, 13 Activity: page 14 Puzzle: page 6, 11, 12	Euro	Theory: page 1 Exercise: 3 – 11, 13, 14, 16 Discussion: page 6 Activity: page 12 Game: page 6	Chinese yuan	Theory: page 7, 8 Exercise: 4 – 10, 12, 13, 15, 16, 19 20, 24 Discussion: page 6 Puzzle: page 5
	Indian rupee	Theory: page 11 Exercise: 5 – 7, 10 – 12 Activity: page 15 Puzzle: page 6, 10, 11	United Kingdom pound	Theory: page 1 Exercise: 3 – 11, 13, 14, 16 Discussion: page 6 Activity: page 12 Game: page 6	Euro	Theory: page 7, 10 Exercise: 3 – 10, 12, 13, 15, 16, 19 – 21, 25 Discussion: page 6 Puzzle: page 9
	Jordanian dinar	Exercise: 5 – 12, 14, 16, 17 Activity: page 13 Puzzle: page 7, 11	Hong Kong dollar	Theory: page 1 Exercise: 3 – 11, 13, 14, 16 Discussion: page 6 Activity: page 12 Game: page 6	United Kingdom pound	Theory: page 7, 10 Exercise: 3 – 10, 12, 13, 15, 16, 19 – 21, 25 Discussion: page 6 Puzzle: page 9
	Japanese yen	Theory: page 8 Exercise: 5 – 7, 9 Activity: page 10 Puzzle: page 6, 7	Indian rupee	Theory: page 1 Exercise: 3 – 8, 10 – 13, 15 Activity: page 11	Hong Kong dollar	Theory: page 7, 10 Exercise: 3 – 10, 12, 13, 16, 19 – 21, 25 Discussion: page 6 Puzzle: page 9
	Qatari riyal	Exercise: 5 – 8, 11 – 14 Activity: page 12 Puzzle: page 5, 9	Jordanian dinar	Exercise: 3 – 8, 10 – 15, 17, 18, 20 Activity: page 11 Puzzle: page 6 Game: page 6	Indian rupee	Exercise: 3 – 11, 18 Discussion: page 8 Puzzle: page 4
	Saudi riyal	Exercise: 5 – 8, 10, 11, 13, 14 Activity: page 13 Puzzle: page 6, 10, 11	Japanese yen	Theory: page 1, 7 Exercise: 3 – 7, 9, 10, 12, 14 Activity: page 11	Jordanian dinar	Theory: page 7, 10 Exercise: 4 – 10, 12, 13, 15, 16, 19 – 21, 25 Discussion: page 6 Puzzle: page 9
	United States dollar	Exercise: 5 – 8, 11 – 14 Activity: page 12 Puzzle: page 5, 8, 9	Qatari riyal	Theory: page 1 Exercise: 3, 5 – 10, 12 – 16, 18 Activity: page 11 Puzzle: page 8 Game: page 8	Japanese yen	Exercise: 4 – 12, 18 Discussion: page 7 Puzzle: page 4
			Saudi riyal	Theory: page 2 Exercise: 4 – 12, 14, 15, 17 Activity: page 12 Puzzle: page 6 Game: page 7	Qatari riyal	Theory: page 7, 10 Exercise: 4 – 10, 12, 13, 15, 16, 19 – 21, 25 Discussion: page 6 Puzzle: page 9
			United States dollar	Theory: page 1 Exercise: 3, 5 – 10, 12 – 15, 17 Discussion: page 8 Activity: page 11 Game: page 8	Saudi riyal	Theory: page 7, 10 Exercise: 4 – 11, 13, 14, 16, 17, 20 – 22, 26 Discussion: page 6 Puzzle: page 9
					United States dollar	Theory: page 7, 9 Exercise: 4 – 10, 12, 13, 15, 16, 19 – 21, 25 Discussion: page 6 Puzzle: page 9

Learning Outcome	PYP 1		PYP 2		PYP 3	
Applying with understanding						
Phase 2: • use standard units of measurement to solve problems in real-life situations involving length, mass, capacity, money and temperature • use measures of time to assist with problem solving in real-life situations.	**Australian dollar**	Theory: page 12 Exercise: 14, 15 Discussion: page 13 Activity: page 14	**Australian dollar**	Theory: page 9, 10 Exercise: 15 – 19 Activity: page 12	**Australian dollar**	Theory: page 14 Exercise: 10, 21 – 25 Discussion: page 14 Activity: page 15
	Canadian dollar	Theory: page 10 Exercise: 15, 16 Discussion: page 11 Activity: page 12	**Canadian dollar**	Theory: page 8, 9 Exercise: 16 – 20 Activity: page 11	**Canadian dollar**	Theory: page 13 Exercise: 11, 22 – 26 Discussion: page 13 Activity: page 14
	Swiss franc	Theory: page 11 Exercise: 15, 16 Discussion: page 12 Activity: page 13	**Swiss franc**	Theory: page 9, 10 Exercise: 16 – 20 Activity: page 12	**Swiss franc**	Theory: page 14 Exercise: 10, 21 – 25 Discussion: page 14 Activity: page 15
	Chinese yuan	Theory: page 10 Exercise: 13, 14 Activity: page 12	**Chinese yuan**	Theory: page 7, 8 Exercise: 13 – 17 Activity: page 10	**Chinese yuan**	Theory: page 11 Exercise: 10, 20 – 24 Discussion: page 11 Activity: page 13
	Euro	Theory: page 12 Exercise: 14, 15 Discussion: page 13 Activity: page 14	**Euro**	Theory: page 9, 10 Exercise: 15 – 19 Activity: page 12	**Euro**	Theory: page 14 Exercise: 10, 21 – 25 Discussion: page 14 Activity: page 15
	United Kingdom pound	Theory: page 12 Exercise: 14, 15 Discussion: page 13 Activity: page 14	**United Kingdom pound**	Theory: page 9, 10 Exercise: 15 – 19 Activity: page 12	**United Kingdom pound**	Theory: page 14 Exercise: 10, 21 – 25 Discussion: page 14 Activity: page 15
	Hong Kong dollar	Theory: page 12 Exercise: 14, 15 Discussion: page 13 Activity: page 14	**Hong Kong dollar**	Theory: page 9, 10 Exercise: 15 – 19 Activity: page 12	**Hong Kong dollar**	Theory: page 14 Exercise: 10, 21 – 25 Discussion: page 14 Activity: page 15
	Indian rupee	Theory: page 13 Exercise: 13, 14 Discussion: page 14 Activity: page 15	**Indian rupee**	Theory: page 9, 10 Exercise: 14 – 19 Activity: page 11	**Indian rupee**	Theory: page 11 Exercise: 11 – 18 Discussion: page 10 Activity: page 12
	Jordanian dinar	Theory: page 11 Exercise: 18, 19 Discussion: page 12 Activity: page 13	**Jordanian dinar**	Theory: page 9, 10 Exercise: 19 – 23 Activity: page 11	**Jordanian dinar**	Theory: page 14 Exercise: 10, 21 – 25 Discussion: page 14 Activity: page 15
	Japanese yen	Theory: page 9 Exercise: 10, 11 Activity: page 10	**Japanese yen**	Theory: page 8, 9 Exercise: 13 – 16 Activity: page 11	**Japanese yen**	Theory: page 10 Exercise: 12 – 18 Discussion: page 9 Activity: page 11
	Qatari riyal	Theory: page 11 Exercise: 15, 16 Discussion: page 11 Activity: page 12	**Qatari riyal**	Theory: page 9, 10 Exercise: 17 – 21 Activity: page 11	**Qatari riyal**	Theory: page 14 Exercise: 10, 21 – 25 Discussion: page 14 Activity: page 15
	Saudi riyal	Theory: page 11 Exercise: 15, 16 Discussion: page 12 Activity: page 13	**Saudi riyal**	Theory: page 9, 10 Exercise: 16 – 20 Activity: page 12	**Saudi riyal**	Theory: page 14 Exercise: 11, 22 – 26 Discussion: page 14 Activity: page 15
	United States dollar	Theory: page 10 Exercise: 15, 16 Discussion: page 11 Activity: page 12	**United States dollar**	Theory: page 8, 9 Exercise: 16 – 20 Activity: page 11	**United States dollar**	Theory: page 13 Exercise: 10, 21 – 25 Discussion: page 13 Activity: page 14

Learning Outcome	PYP 1	PYP 2	PYP 3

Pattern and function

Constructing meaning

Phase 2:			
• understand that patterns can be found in numbers, for example, odd and even numbers, skip counting • understand the inverse relationship between addition and subtraction • understand the associative and commutative properties of addition.	**Australian dollar** Exercise: 5, 12 **Canadian dollar** Theory: page 3 Exercise: 5, 6, 13 **Swiss franc** Exercise: 5, 13 **Chinese yuan** Exercise: 7 **Euro** Exercise: 5, 12 **United Kingdom pound** Exercise: 5, 12 **Hong Kong dollar** Exercise: 5, 12 **Indian rupee** Exercise: 5, 10 **Jordanian dinar** Theory: page 6 Exercise: 5, 11, 14 **Japanese yen** Exercise: 5 **Qatari riyal** Theory: page 3 Exercise: 5, 6, 11 **Saudi riyal** Theory: page 3 Exercise; 5, 6, 13 **United States dollar** Theory: page 3 Exercise: 5, 6, 11	**United States dollar** Theory: page 1	**Canadian dollar** Exercise: 3 **Jordanian dinar** Exercise: 3 **Qatari riyal** Exercise: 3 **Saudi riyal** Exercise: 3 **United States dollar** Exercise: 3

Applying with understanding

Phase 1:			
• extend and create patterns.		**Indian rupee** Exercise: 11, 12 **Japanese yen** Exercise: 9, 10	

Phase 2:			
• extend and create patterns in numbers, for example, odd and even numbers, skip counting • use number patterns to represent and understand real-life situations • use the properties and relationships of addition and subtraction to solve problems.		**United States dollar** Exercise: 6	**Australian dollar** Exercise: 6 **Canadian dollar** Exercise: 3, 7 **Swiss franc** Exercise: 6 **Chinese yuan** Exercise: 8 **Euro** Exercise: 6 **United Kingdom pound** Exercise: 6 **Hong Kong dollar** Exercise: 6 **Indian rupee** Exercise: 5 **Jordanian dinar** Exercise: 3, 6 **Japanese yen** Exercise: 6 **Qatari riyal** Exercise: 3, 6 **Saudi riyal** Exercise: 3, 7 **United States dollar** Exercise: 3, 6

Phase 3:			
• select appropriate methods for representing patterns, for example using words, symbols and tables • use number patterns to make predictions and solve problems • use the properties and relationships of the four operations to solve problems.			**Australian dollar** Exercise: 11 **Canadian dollar** Exercise: 12 **Swiss franc** Exercise: 11 **Euro** Exercise: 11 **United Kingdom pound** Exercise: 11 **Hong Kong dollar** Exercise: 11 **Jordanian dinar** Exercise: 11 **Qatari riyal** Exercise: 11 **Saudi riyal** Exercise: 12 **United States dollar** Exercise: 11

Learning Outcome	PYP 1		PYP 2		PYP 3	

Number

Conceptual understandings

Phase 1:
- Numbers are a naming system.
- Numbers can be used in many ways for different purposes in the real world.
- Numbers are connected to each other through a variety of relationships.
- Making connections between our experiences with number can help us to develop number sense.

	PYP 1	PYP 2	PYP 3
Australian dollar	Exercise: 4, 11		
Canadian dollar	Exercise: 4, 12		
Swiss franc	Exercise: 4, 12		
Chinese yuan	Exercise: 4, 6		
Euro	Exercise: 4, 11		
United Kingdom pound	Exercise: 4, 11		
Hong Kong dollar	Exercise: 4, 11		
Indian rupee	Theory: page 7 Exercise: 4, 9		
Jordanian dinar	Exercise: 4, 13		
Japanese yen	Theory: page 1 Exercise: 4 Discussion: page 11	Theory: page 6 Exercise: 11	
Qatari riyal	Exercise: 4, 10		
Saudi riyal	Exercise: 12		
United States dollar	Exercise: 4, 10		

Phase 2:
- The base 10 place value system is used to represent numbers and number relationships.
- Fractions are ways of representing whole-part relationships.
- The operations of addition, subtraction, multiplication and division are related to each other and are used to process information to solve problems.
- Number operations can be modelled in a variety of ways.
- There are many mental methods that can be applied for exact and approximate computations.

	PYP 1	PYP 2	PYP 3
Australian dollar	Exercise: 8	Exercise: 8	Exercise: 6, 14
Canadian dollar	Exercise: 9	Exercise: 10	Exercise: 7, 15
Swiss franc	Exercise: 8	Exercise: 8	Exercise: 6, 14
Chinese yuan	Exercise: 10	Exercise: 9	Exercise: 8, 14
Euro	Exercise: 8	Exercise: 8	Exercise: 6, 14
United Kingdom pound	Exercise: 8	Exercise: 8	Exercise: 6, 14
Hong Kong dollar	Exercise: 8	Exercise: 8	Exercise: 6, 14
Indian rupee	Theory: page 7, 8 Exercise: 8	Exercise: 8	Exercise: 5
Jordanian dinar	Exercise: 15	Exercise: 14	Exercise: 6, 14
Japanese yen	Theory: page 1, 2 Exercise: 8	Theory: page 6 Exercise: 7	Exercise: 6
Qatari riyal	Exercise: 9	Exercise: 10	Exercise: 6, 14
Saudi riyal	Exercise: 9	Exercise: 9	Exercise: 7, 15
United States dollar	Exercise: 9	Exercise: 10	Exercise: 6, 14

Phase 3:
- The base 10 place value system can be extended to represent magnitude.
- Fractions and decimals are ways of representing whole-part relationships.
- The operations of addition, subtraction, multiplication and division are related to each other and are used to process information to solve problems.
- Even complex operations can be modelled in a variety of ways, for example, an algorithm is a way to represent an operation.

	PYP 1	PYP 2	PYP 3
Japanese yen	Discussion: page 11		Theory: page 5

Learning Outcome	PYP 1		PYP 2		PYP 3
Constructing meaning					
Phase 1: • understand one-to-one correspondence • understand that, for a set of objects, the number name of the last object counted describes the quantity of the whole set • understand that numbers can be constructed in multiple ways, for example, by combining and partitioning • understand conservation of number • understand the relative magnitude of whole numbers • recognise groups of zero to five objects without counting (subitising) • understand whole-part relationships • use the language of mathematics to compare quantities, for example, more, less, first, second.	**Australian dollar**	Theory: page 12 Exercise: 7, 10, 14 Discussion: page 13	**Australian dollar**	Theory: page 9 Exercise: 5, 9, 15	
	Canadian dollar	Theory: page 10 Exercise: 8, 11, 15 Discussion: page 11	**Canadian dollar**	Theory: page 8 Exercise: 7, 11, 16	
	Swiss franc	Theory: page 11 Exercise: 7, 11, 15 Discussion: page 12	**Swiss franc**	Theory: page 9 Exercise: 5, 10, 16	
	Chinese yuan	Theory: page 10 Exercise: 9, 11 – 13	**Chinese yuan**	Theory: page 7 Exercise: 5, 11 – 13	
	Euro	Theory: page 12 Exercise: 7, 10, 14 Discussion: page 13	**Euro**	Theory: page 9 Exercise: 5, 9, 15	
	United Kingdom pound	Theory: page 12 Exercise: 7, 10, 14 Discussion: page 13	**United Kingdom pound**	Theory: page 9 Exercise: 5, 9, 15	
	Hong Kong dollar	Theory: page 12 Exercise: 7, 10, 14 Discussion: page 13	**Hong Kong dollar**	Theory: page 9 Exercise: 5, 9, 15	
	Indian rupee	Theory: page 13 Exercise: 7, 13 Discussion: page 14	**Indian rupee**	Theory: page 9 Exercise: 5, 14	
	Jordanian dinar	Theory: page 11 Exercise: 7, 17, 18 Discussion: page 12	**Jordanian dinar**	Theory: page 9 Exercise: 5, 12, 19	
	Japanese yen	Theory: page 9 Exercise 7, 10	**Japanese yen**	Theory: page 8 Exercise: 5, 13	
	Qatari riyal	Theory: page 11 Exercise: 8, 14, 15 Discussion: page 11	**Qatari riyal**	Theory: page 9 Exercise: 7, 14, 17	
	Saudi riyal	Theory: page 11 Exercise: 8, 11, 15 Discussion: page 12	**Saudi riyal**	Theory: page 9 Exercise: 6, 10, 16	
	United States dollar	Theory: page 10 Exercise: 8, 14, 15 Discussion: page 11	**United States dollar**	Theory: page 8 Exercise: 7, 14, 16	

Learning Outcome	PYP 1		PYP 2		PYP 3	
Phase 2: • model numbers to hundreds or beyond using the base 10 place value system • estimate quantities to 100 or beyond • model simple fraction relationships • use the language of addition and subtraction, for example, add, take away, plus, minus, sum, difference • model addition and subtraction of whole numbers • develop strategies for memorising addition and subtraction number facts • estimate sums and differences • understand situations that involve multiplication and division • model addition and subtraction of fractions with the same denominator.	**Australian dollar** **Canadian dollar** **Swiss franc** **Chinese yuan** **Euro** **United Kingdom pound** **Hong Kong dollar** **Indian rupee** **Jordanian dinar** **Japanese yen** **Qatari riyal** **Saudi riyal** **United States dollar**	Exercise: 5, 8, 12 Theory: page 3 Exercise: 5, 6, 9, 13 Discussion: page 6 Exercise: 5, 8, 13 Exercise: 7, 10 Exercise: 5, 8, 12 Exercise: 5, 8, 12 Exercise: 5, 8, 12 Theory: page 7, 8, 11 Exercise: 5, 8, 10, 12 Theory: page 5, 6 Exercise: 5, 11, 14, 15 Theory: page 1, 2, 8 Exercise: 5, 8, 9 Theory: page 3 Exercise: 5, 6, 9, 11 Theory: page 3 Exercise: 5, 6, 9, 13 Theory: page 3 Exercise: 5, 6, 9, 11 Discussion: page 10	**Australian dollar** **Canadian dollar** **Swiss franc** **Chinese yuan** **Euro** **United Kingdom pound** **Hong Kong dollar** **Indian rupee** **Jordanian dinar** **Japanese yen** **Qatari riyal** **Saudi riyal** **United States dollar**	Exercise: 12, 19 Exercise: 3, 4, 13, 20 Discussion: page 6 Exercise: 13, 20 Exercise: 6, 17 Exercise: 12, 19 Exercise: 12, 19 Exercise: 12, 19 Exercise: 9, 11, 19 Theory: page 3, 4 Exercise: 9, 10, 16, 23 Theory: page 7 Exercise: 8, 9, 12 Exercise: 4, 5, 11, 21 Exercise: 3, 13, 20 Exercise: 4, 5, 11, 20 Discussion: page 8	**Australian dollar** **Canadian dollar** **Swiss franc** **Chinese yuan** **Euro** **United Kingdom pound** **Hong Kong dollar** **Indian rupee** **Jordanian dinar** **Japanese yen** **Qatari riyal** **Saudi riyal** **United States dollar**	Exercise: 23 Exercise: 3, 24 Exercise: 23 Exercise: 22 Exercise: 23 Exercise: 23 Exercise: 23 Exercise: 15, 16 Exercise: 3, 23 Exercise: 16 Exercise: 3, 23 Exercise: 3, 24 Exercise: 3, 23
Phase 3: • model numbers to thousands or beyond using the base 10 place value system • model equivalent fractions • use the language of fractions, for example, numerator, denominator • model decimal fractions to hundredths or beyond • model multiplication and division of whole numbers • use the language of multiplication and division, for example, factor, multiple, product, quotient, prime numbers, composite number • model addition and subtraction of fractions with related denominators • model addition and subtraction of decimals.	**Japanese yen**	Discussion: page 11	**Japanese yen**	Theory: page 6, 7 Exercise: 12		
Transferring meaning into symbols						
Phase 1: • connect number names and numerals to the quantities they represent.	**Indian rupee** **Japanese yen**	Theory: page 7, 11 Exercise: 12 Theory: page 1, 8 Exercise: 9	**Japanese yen**	Theory: page 6, 7 Exercise: 12		

Learning Outcome	PYP 1		PYP 2		PYP 3	
Phase 2: • read and write whole numbers up to hundreds or beyond • read, write, compare and order cardinal and ordinal numbers • describe mental and written strategies for adding and subtracting two-digit numbers.	**Australian dollar**	Exercise: 14 Discussion: page 13 Puzzle: page 12	**Australian dollar**	Exercise: 15, 16	**Australian dollar**	Exercise: 10, 12, 21 Discussion: page 14
	Canadian dollar	Exercise: 15 Discussion: page 11 Puzzle: page 10	**Canadian dollar**	Exercise: 3, 4, 16, 17	**Canadian dollar**	Exercise: 11, 13, 22 Discussion: page 13
	Swiss franc	Exercise: 15 Discussion: page 12 Puzzle: page 11	**Swiss franc**	Exercise: 16, 17	**Swiss franc**	Exercise: 10, 12, 21 Discussion: page 14
	Chinese yuan	Exercise: 13 Puzzle: page 10	**Chinese yuan**	Exercise: 13, 14	**Chinese yuan**	Exercise: 10, 12, 20 Discussion: page 11
	Euro	Exercise: 14 Discussion: page 13 Puzzle: page 12	**Euro**	Exercise: 15, 16	**Euro**	Exercise: 10, 12, 21 Discussion: page 14
	United Kingdom pound	Exercise: 14 Discussion: page 13 Puzzle: page 12	**United Kingdom pound**	Exercise: 15, 16	**United Kingdom pound**	Exercise: 10, 12, 21 Discussion: page 14
	Hong Kong dollar	Exercise: 14 Discussion: page 13 Puzzle: page 12	**Hong Kong dollar**	Exercise: 15, 16	**Hong Kong dollar**	Exercise: 10, 12, 21 Discussion: page 14
	Indian rupee	Exercise: 13 Discussion: page 14 Puzzle: page 11	**Indian rupee**	Exercise: 14, 15	**Indian rupee**	Exercise: 11 Discussion: page 10
	Jordanian dinar	Exercise: 18 Discussion: page 12 Puzzle: page 11	**Jordanian dinar**	Exercise: 9, 19, 20	**Jordanian dinar**	Exercise: 10, 12, 21 Discussion: page 14
	Japanese yen	Exercise: 10 Puzzle: page 7	**Japanese yen**	Exercise: 13, 14	**Japanese yen**	Discussion: page 9
	Qatari riyal	Exercise: 15 Discussion: page 11 Puzzle: page 9	**Qatari riyal**	Exercise: 4, 17, 18	**Qatari riyal**	Exercise: 10, 12, 21 Discussion: page 14
	Saudi riyal	Exercise: 15 Discussion: page 12 Puzzle: page 11	**Saudi riyal**	Exercise: 3, 16, 17	**Saudi riyal**	Exercise: 11, 13, 22 Discussion: page 14
	United States dollar	Exercise: 15 Discussion: page 11 Puzzle: page 9	**United States dollar**	Exercise: 4, 16, 17	**United States dollar**	Exercise: 10, 12, 21 Discussion: page 13
Phase 3: • read, write, compare and order whole numbers up to thousands or beyond • develop strategies for memorising addition, subtraction, multiplication and division number facts • read, write, compare and order fractions • read and write equivalent fractions • read, write, compare and order fractions to hundredths or beyond • describe mental and written strategies for multiplication and division.					**Japanese yen**	Theory: page 5 Exercise: 9, 12

Learning Outcome	PYP 1	PYP 2	PYP 3
Applying with understanding			
Phase 1: • count to determine the number of objects in a set • use number words and numerals to represent quantities in real-life situations • use the language of mathematics to compare quantities in real-life situations, for example, more, less, first, second • subitise in real-life situations • use simple fraction names in real-life situations.	**Canadian dollar** Discussion: page 6 **Swiss franc** Theory: page 7 **Jordanian dinar** Theory: page 5, 6 Exercise: 9, 12 **United States dollar** Discussion: page 10	**Canadian dollar** Discussion: page 6 **Swiss franc** Theory: page 5 **Jordanian dinar** Theory: page 3, 4 Exercise: 7, 11 **United States dollar** Discussion: page 8	
Phase 2: • use whole numbers up to hundreds or beyond in real-life situations • use cardinal and ordinal numbers in real-life situations • use fast recall of addition and subtraction number facts in real-life situations • use fractions in real-life situations • use mental and written strategies for addition and subtraction of two-digit numbers or beyond in real-life situations • select an appropriate method for solving a problem, for example, mental estimation, mental or written strategies, or by using a calculator • use strategies to evaluate the reasonableness of answers.	**Australian dollar** Exercise: 6, 7, 9, 10, 13, 15 Activity: page 14 Puzzle: page 6, 11, 12 **Canadian dollar** Exercise: 7, 8, 10, 11, 14, 16 Discussion: page 6 Activity: page 12 Puzzle: page 5, 9, 10 **Swiss franc** Exercise: 6, 7, 9 − 11, 14, 16 Activity: page 13 Puzzle: page 6, 11 **Chinese yuan** Exercise: 5, 8, 9, 11, 12, 14 Activity: page 12 Puzzle: page 8, 10 **Euro** Exercise: 6, 7, 9, 10, 13, 15 Activity: page 14 Puzzle: page 6, 11, 12 **United Kingdom pound** Exercise: 6, 7, 9, 10, 13, 15 Activity: page 14 Puzzle: page 6, 11, 12 **Hong Kong dollar** Exercise: 6, 7, 9, 10, 13, 15 Activity: page 14 Puzzle: page 6, 11, 12 **Indian rupee** Theory: page 11 Exercise: 6, 7, 11, 12, 14 Activity: page 15 Puzzle: page 6, 10, 11 **Jordanian dinar** Exercise: 6 − 10, 12, 16, 17, 19 Activity: page 13 Puzzle: page 7, 11 **Japanese yen** Theory: page 8 Exercise: 6, 7, 9, 11 Activity: page 10 Puzzle: page 6, 7 **Qatari riyal** Exercise: 7, 8, 12 − 14, 16 Activity: page 12 Puzzle: page 5, 9 **Saudi riyal** Exercise: 7, 8, 10, 11, 14, 16 Activity: page 13 Puzzle: page 6, 10, 11 **United States dollar** Exercise: 7, 8, 12 − 14, 16 Activity: page 12 Puzzle: page 5, 8, 9	**Australian dollar** Theory: page 1, 10 Exercise: 3 − 11, 13, 14, 16 − 18 Discussion: page 6 Activity: page 12 Puzzle: page 5 Game: page 6 **Canadian dollar** Theory: page 2, 9 Exercise: 5 − 12, 14, 15, 17 − 19 Discussion: page 6 Activity: page 11 Puzzle: page 5 Game: page 6 **Swiss franc** Theory: page 1, 10 Exercise: 3 − 12, 14, 15, 17 − 19 Discussion: page 6 Activity: page 12 Puzzle: page 7 Game: page 7 **Chinese yuan** Theory: page 2, 8 Exercise: 3 − 5, 7 − 12, 14 − 16 Activity: page 10 Puzzle: page 6 **Euro** Theory: page 1, 10 Exercise: 3 − 11, 13, 14, 16 − 18 Discussion: page 6 Activity: page 12 Puzzle: page 6 Game: page 6 **United Kingdom pound** Theory: page 1, 10 Exercise: 3 − 11, 13, 14, 16 − 18 Discussion: page 6 Activity: page 12 Puzzle: page 5 Game: page 6 **Hong Kong dollar** Theory: page 1, 10 Exercise: 3 − 11, 13, 14, 16 − 18 Discussion: page 6 Activity: page 12 Puzzle: page 6 Game: page 6 **Indian rupee** Theory: page 1, 10 Exercise: 3 − 8, 10 − 13, 15 − 18 Activity: page 11 Puzzle: page 5	**Australian dollar** Theory: page 7, 10, 14 Exercise: 3 − 10, 12, 13, 15 − 22, 24, 25 Activity: page 15 Puzzle: page 9 **Canadian dollar** Theory: page 7, 9, 13 Exercise: 4 − 11, 13, 14, 16 − 23, 25, 26 Activity: page 14 Puzzle: page 9 **Swiss franc** Theory: page 1, 7, 10, 14 Exercise: 3 − 10, 12, 13, 15 − 22, 24, 25 Activity: page 15 Puzzle: page 9 **Chinese yuan** Theory: page 7, 8, 11 Exercise: 4 − 10, 12, 13, 15 − 21, 23, 24 Activity: page 13 Puzzle: page 5 **Euro** Theory: page 7, 10, 14 Exercise: 3 − 10, 12, 13, 15 − 22, 24, 25 Activity: page 15 Puzzle: page 9 **United Kingdom pound** Theory: page 7, 10, 14 Exercise: 3 − 10, 12, 13, 15 −22, 24, 25 Activity: page 15 Puzzle: page 9 **Hong Kong dollar** Theory: page 7, 10, 14 Exercise: 3 − 10, 12, 13, 15 − 22, 24, 25 Activity: page 15 Puzzle: page 9 **Indian rupee** Theory: page 11 Exercise: 3 − 14, 17, 18 Activity: page 12 Puzzle: page 4 **Jordanian dinar** Theory: page 1, 7, 10, 14 Exercise: 4 − 13, 15 − 22, 24, 25 Activity: page 15 Puzzle: page 9 **Japanese yen** Theory: page 10 Exercise: 4 − 15, 17, 18 Activity: page 11 Puzzle: page 4 **Qatari riyal** Theory: page 7, 10, 14 Exercise: 4 − 10, 12, 13, 15 − 22, 24, 25 Activity: page 15 Puzzle: page 9 **Saudi riyal** Theory: page 7, 10, 14 Exercise: 4 − 11, 13, 14, 16 − 23, 25, 26 Activity: page 15 Puzzle: page 9

Learning Outcome	PYP 1	PYP 2		PYP 3	
		Jordanian dinar	Theory: page 10 Exercise: 3 – 8, 11 – 15, 17, 18, 20 – 22 Activity: page 11 Puzzle: page 6, 7 <mark>Game: page 6</mark>	**United States dollar**	Theory: page 7, 9, 13 Exercise: 4 – 10, 12, 13, 15 – 22, 24, 25 Activity: page 14 Puzzle: page 9
		Japanese yen	Theory: page 1, 7, 9 Exercise: 3 – 7, 9, 10, 12, 14 – 16 Activity: page 11		
		Qatari riyal	Theory: page 1, 10 Exercise: 3, 6 – 10, 12 – 16, 18 – 20 Activity: page 11 Puzzle: page 5, 8 <mark>Game: page 8</mark>		
		Saudi riyal	Theory: page 2, 10 Exercise: 4 – 12, 14, 15, 17 – 19 Activity: page 12 Puzzle: page 6, 7 <mark>Game: page 7</mark>		
		United States dollar	Theory: page 1, 9 Exercise: 3, 6 – 10, 12 – 15, 17 – 19 Discussion: page 8 Activity: page 11 Puzzle: page 5 <mark>Game: page 8</mark>		
Phase 3: - use whole numbers up to thousands or beyond in real-life situations - use fast recall of multiplication and division number facts in real-life situations - use decimal fractions in real-life situations - use mental and written strategies for multiplication and division in real-life situations - select an efficient method for solving a problem, for example, mental estimation, mental or written strategies, or by using a calculator - use strategies to evaluate the reasonableness of answers - add and subtract fractions with related denominators in real-life situations - add and subtract decimals in real-life situations, including money - estimate sum, difference, product and quotient in real-life situations, including fractions and decimals.		**Australian dollar**	Exercise: 19	**Australian dollar**	Exercise: 11, 23
		Canadian dollar	Exercise: 20	**Canadian dollar**	Exercise: 12, 24
		Swiss franc	Exercise: 20	**Swiss franc**	Exercise: 11, 23
		Chinese yuan	Exercise: 17	**Chinese yuan**	Exercise: 11, 22
		Euro	Exercise: 19	**Euro**	Exercise: 11, 23
		United Kingdom pound	Exercise: 19	**United Kingdom pound**	Exercise: 11, 23
		Hong Kong dollar	Exercise: 19	**Hong Kong dollar**	Exercise: 11, 23
		Indian rupee	Exercise: 19	**Indian rupee**	Exercise: 15, 16
		Jordanian dinar	Exercise: 23	**Jordanian dinar**	Exercise: 11, 23
		Japanese yen	Theory: page 7 Exercise: 12	**Japanese yen**	Theory: page 5 Exercise: 9, 10, 13 – 18 Activity: page 11
		Qatari riyal	Exercise: 21	**Qatari riyal**	Exercise: 11, 23
		Saudi riyal	Exercise: 20	**Saudi riyal**	Exercise: 12, 24
		United States dollar	Exercise: 20	**United States dollar**	Exercise: 11, 23