ESF Measurement

Phase 1				Phase 2		Phase 3	Phase 4	
	К1	К2	Yea	r 1 Year 2	Year 3	Year 4	Year 5	Year 6
IBO Overall Expectation	Learners will dev understanding o involves the com and the ordering events. They will compare and des real objects as w sequence familia routine.	velop an f how mea nparison of g and seque l be able to scribe attri vell as desc ar events ir	surement objects encing of identify, butes of ribe and their daily	Learners will understand that standa units allow us to have a common language to measure and describe objects and events, and that while estimation is a strategy that can be applied for approximate measurements, particular tools allow us to measure and describe attribute of objects and events with more accuracy. Learners will develop these understandings in relation to measurement involving length, mass capacity, money, temperature and time.	ard Learners v units to m developin measuring volume. T appropria v measuren es describe r two numb e will be giv construct 5, of an angl	will continue to use standard leasure objects, in particular g their understanding of g perimeter, area and hey will select and use te tools and units of nent, and will be able to neasures that fall between bers on a scale. The learners en the opportunity to meaning about the concept e as a measure of rotation.	Learners will under of procedures exis different attribute events, for example formulas for findin and volume. They decide on the leve required for measu decimal and fraction precise measurem To demonstrate the angles as a measure learners will be ab construct angles.	rstand that a range ts to measure s of objects and e, the use of g area, perimeter will be able to l of accuracy uring and using on notation when ents are necessary. heir understanding of re of rotation, the le to measure and
IBO Conceptual Understanding	Measurement in objects and ever Objects have att measured using Events can be or sequenced.	volves con nts. ributes tha non-standa dered and	nparing t can be ard units.	Standard units allow us to have a common language to identify, compare, order and sequence object and events. We use tools to measure the attribut of objects and events. Estimation allows us to measure wit different levels of accuracy.	tes Relationsh units that attributes	nd events have attributes e measured using te tools. hips exist between standard measure the same	Accuracy of measu on the situation ar the tool. Conversion of unit allows us to make we live in. A range of procedu measure different and events.	arements depends and the precision of s and measurements sense of the world ures exists to attributes of objects

	Pł	nase 1		Phase 2		Phase 3		Phase 4
	К1	К2	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement of Shape and Space		Compare , describe and begin to measure the length, mass and capacity of objects using nonstandard units	Estimate, compare, describe and measure the length, mass and capacity of objects using nonstandard units	Estimate, compare and measure the length with standard units Estimate, compare and measure mass, capacity and volume of objects using nonstandard units	Estimate, compare and measure objects using standard units of measurement: length, mass, volume and capacity Estimate, compare and measure area of objects nonstandard units Identify and describe relationships between units of measure (eg: 10mm is the same as 1cm)	Estimate, compare and measure objects using standard units of measurement: length, perimeter, area, mass, capacity, volume and temperature	Estimate, compare and measure objects using standard units of measurement: length, perimeter, mass, capacity, area, volume and temperature Calculate and develop rules for determining area and perimeter of rectangles Identify and describe the relationships between area and perimeter	Estimate, compare and measure objects using standard units of measurement: length, perimeter, mass, capacity, area, volume and temperature Calculate and develop rules for determining area and perimeter of triangles Calculate and develop rules for determining volume of cubes and cuboids Identify and describe the relationships between area and volume, and between volume and capacity
						Convert between units using whole numbers (e.g. 1 metre to 100 centimetres)	Convert between units using decimals to at least one place (e.g. change 2.6 kg to	Convert between units using decimals to at least two places (e.g. change 2.75 litres to 2750 ml, or

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υ	Identify, describe and sequence events in their daily routine, for example, hafeee aftee	Identify, describe and sequence events in their daily routine, for example, hefees after	Read and write the time to the hour Name and order the days of the	Read and write the time to the hour and half hour Name and order the months of the	Read and write the time to the quarter-hour and 5 minute intervals (past, to)	Read and write the time to the minute and investigate the relationship between units of time	Read, write and compare 12 and 24 hour time systems and convert between them	Calculate time across time zones
Measurement of Tim	before, after, bedtime, storytime, today, tomorrow	before, after, bedtime, storytime, today, tomorrow	week Compare and order the duration of events using the every day language of time Connect days of the week to familiar events and actions	year and seasons Describe duration using months, weeks, days, hours and minutes Identify and record dates of events on a calendar	Estimate and compare lengths of time: second, minute, hour, day, week, months and years Connect times to events in a day	Convert between units of time Describe time and duration using am and pm	Connect 12 and 24 hour time to timetables Solve problems involving difference in time	Solve problems involving difference in time
Angles					Identify angles as measures of turn and compare angle sizes in everyday situations	Compare and classify angles using the language of right angle, acute and obtuse	Estimate, compare, classify, measure and construct angles	Estimate, compare, measure and construct angles within shapes Calculate and develop rules to find unknown angles within shapes, around a point and on a straight line