The Winchester School (WIN) – JEBEL ALI National Agenda Parameter (NAP) Department Information: Primary - Science

AREA OF FOCUS	MODIFICATION OF CURRICULUM	Success/ Impact indicators	WHEN / WHERE	WHO	USEFUL LINKS
TIMSS To embed intuitive & inductive reasoning skills, empowering students to use logical systematic thinking to explain scientific	SOW Continue to integrate the TIMSS syllabus (GAPS) Earth science taught in Geography Need to developed using cross curricular links between science and geography	Most students demonstrate secure learning initiated by them consistently and independently in a range of situations (confidently answer TIMSS style questions, students create questions, write conclusions and evaluations)	Termly In class	Planners, HOD	https://www.educati on.com/worksheets/t hird-grade/earth- science/
phenomenon in real life settings	In lessons Starter – Concept cartoon to provide question based inquiry Plenary / Mid plenary – TIMSS style questions To gauge progress Teacher creating questions	Most students display skills to critically think, solve, analyse & explain problems in lessons Skilful questioning by students and teachers deepens thinking skills and supports understanding of most students.	Ongoing In lessons	Subject teachers	http://geology.com/t eacher/
	Challenging students to create questions Home Learning — TIMSS style questions and PBL with focus on comprehension skills	Accurate assessments will ensure the individual needs of pupil is meet.			http://www.e- learningforkids.org/s cience/lesson/center -of-the-ocean-the- sun-the-earth/
To bridge gap identified and ensure similar performance of boys and girls	Early intervention, Monitoring and Close follow up of girls performance Utilization of personalised strategies	Prediction – DATA by the end of KS 2 Above : 94%	In class, every term	Subject teachers	http://primaryleap.c o.uk/primary-

	Opportunities for presentation in class and during events (WINSPARKS, SCI Quiz, STEM Olympiad) as a focus for girls GAPS identified year group wise GAPS - Soil Cross curricular with geography Lesson plan for Soil during the unit for Rocks	Most students attain levels according to their potential in both internal and external assessments. Most students display skills to critically think, solve, analyse & explain giving solutions Most students will be able to apply their knowledge of	Ongoing		http://study.com/aca demy/lesson/the- scientific-method- steps-terms- examples.html
Curriculum modification according to New frame work	SOW – Integration of new syllabus - Transmission, symptoms and prevention of common communicable diseases Lesson plan to be included in the Healthy lifestyle unit In class Creating question, MCQ, healthy lifestyle week activities	Most students will be able to apply the knowledge to compare and contrast, interpret and analyse information, draw conclusions and formulate questions. Most students will be able to explain different communicable diseases with their symptoms and prevention.	SOW/ Termly	Subject planner, HOD	http://www.soils4tea chers.org/lessons- and-activities
PROGRESS TEST SCIENCE To effectively analyse and use PTS data to identified GAPS to inform planning	Year 3 – GAPS – Earth science Soil Physical features of the soil and various resources available. Revisiting investigation topics to ensure GAP's are covered	In lessons Most students can confidently recognise and explain the physical features of earth and identify the various resources on earth. Most Students will be able to use and apply their knowledge and inquiry skills to write Aim and prediction with reason independently	Ongoing In lessons	Subject teachers	http://www.soils4kid s.org/about

Cutation Constitution of	Abialian Ainea Club I I I I		Т	1	
Critical questioning and in lessons and through		students and teachers deepens thinking derstanding of most students.			
Inclusion of Soil in the S greater depth (cross cir geography) in the unit f	cular with				https://www.pintere
Comprehension and ST PBL in investigations	Most students will be text and answer que	pe able to comprehend an analyse estions related to it.			st.com/pin/49096279 6860595303/
Year 4 – GAPS - KEYS	In lessons	nonfidenthy use VEVC to independently		Subject	
Branching database - sorting of living thing	classify and derive i	udents can create KEYS	Ongoing	teachers	file:///C:/Users/shafe
Soil Physical features of the various resources availing Review of the SOW and greater depth to further branching database	ailable. Most students will by various physical fea	e able to confidently explain the tures and resources available		Subject teachers	e.b win/Downloads/ habitats.pdf
Cross curricular with topics and subjects si studies and real life s	uch as UAE				http://www.rsc.org/learn-
Critical questioning an time in lessons and to Aim high catering to ability wise	hrough HL thinking skills and si students	by students and teachers deepens upports understanding of most			chemistry/resource/r es00002190/science- ideas-web-the- romans?cmpid=CMP 00007417
Revisiting investigation focus on fair testing, with reason and obse	prediction knowledge and inqu	be able to use and apply their uiry skills to write Aim and prediction d and observation table independently		Subject teachers	
PBL in investigations su Teeth investigation.	ch as				http://physics.tutorvi
Support to lower star individualised HL	Students will able to	o confidently use and apply the MCQ style questions			sta.com/scientific- methods/scientific- investigation

Compr		Most students will be able to comprehend an analyse text and answer questions related to it.		HOD, planner	
Detail flower Supposecon explain the telescontrol of the second in lesson HL Review depth	flowering plants ails of different types of non — rering plants with examples cort provided by specialist andary teachers/ HOD for aining non flowering plants to teachers cal questioning and thinking time essons in form of MCQ and through ew of the SOW and LP in greater h to further embed non-flowering ts and their description with	In lessons Most students will be able to identify and label with details and explain non flowering plants with examples Most students will be able to comprehend an analyse text and answer questions related to it.	Ongoing	Subject teachers Specialist teachers	http://www.duckster s.com/science/biolog y/non- flowering plants.php http://study.com/aca demy/practice/quiz- worksheet-flowering- nonflowering-plants- facts-for-kids.html
studer conclu Suppo individ	lusion independently port to lower stanine using yidualised HL earch and presentation in class	Students will be Able to use and apply their knowledge and inquiry skills to write Aim and prediction, method and observation table, conclusion independently Students will able to confidently use and apply the knowledge to solve MCQ style questions Students will be able to confidently collaborate, think		HOD,	http://daleyscience. weebly.com/uploads /1/3/8/7/13871944/c onducting a scientifi c investigation.pdf
PBL in	n investigations such as heart rate stigation, evaporation, melting etc.	independently and present information Most Students will be able to use and apply their knowledge and inquiry skills to write Aim and prediction with reason, method and observation table independently	planners	http://www.learnhiv e.net/learn/icse- grade- 6/physics/force https://sites.google.c om/a/yarmouthscho	

	Year 6 - GAPS — Forces Different forces and how they work in real life Review of the SOW and LP in greater depth to include Forces Research, presentation, projects in class Support to lower stanine using individualised HL Revisiting investigation topics to ensure detailed conclusion and evaluation Comprehension and STEAM in HL PBL in investigations	In lessons Most students will be able to explain and demonstrate the working of different forces and will be able to attain levels according to their potential in both internal and external assessments. Students will be Able to use and apply their knowledge and inquiry skills to write Aim and prediction, method and observation table, conclusion and evaluation independently Most students attain levels according to their potential in both internal and external assessments. Most Students will be able to use and apply their knowledge and inquiry skills to write Aim and prediction with reason, method and observation table independently	Ongoing Every 6 weeks Every 6 weeks	Subject teachers Subject teacher Subject teachers	ols.org/testingsteam/grade-6 https://www.pinterest.com/jhallrodabaugh/steam-force-andmotion/ https://www.sciencebuddies.org/science-fair-projects/science-fair/steps-of-thescientific-method
CAT4 To analyse and continue using CAT 4 data to identify groups and provide early intervention To personalise LP using student implications and plan next steps	Use of detailed analysis of CAT 4 G&T(ALP/TLP) and low achievers, involving parents to support the students' progress To utilize PBL in helping decipher text (comprehension) and apply the knowledge	Most of students make accelerated progress from their starting points due to personalised planning teaching and effective diagnostic marking and feedback oral and written. Most of the students perform according to their potential in internal and external assessments Lower achievers will make increased progress, narrowing their GAPS in the assessments High achievers and G&T pupils will show accelerated progress and greater depth.	Every 6 weeks	Subject teachers Subject teachers Subject teachers	http://practice.ukcat. ac.uk/pages/menu.as px?pack=ce630588- 89fd-40a6-b325- 4c55070e9fb5 https://www.tcyonlin e.com/tests/mock- cat-4

GAPS — Verbal Skills Use of Visual media such as video concept cartoons Think pair share, group discussion Reasoning skills Creating critical thinking question using Bloom's taxonomy, thinking	GAPS in the assessments High achievers and G&T pupils will show accelerated progress and greater depth. Most students will be able to use and apply their knowledge	Ongoing	Subject teachers	https://www.google. ae/search?q=concept +cartoons&safe=stric t&source=lnms&tbm =isch&sa=X&ved=0ah UKEwibIMSJoNvXAhV ClxQKHWLcD cQ AU