

STUDENTS' ACHIEVEMENT (PS1) (1.1 and 1.2 Attainment & Progress)

Maintain Outstanding Attainment and Progress in Secondary Science across all phase

Leader: Head of Science Primary and Secondary

Line Manager: Head of Primary and

Secondary

Achievement Governor: Vice Principal

External Evaluator: Vice President-GEMS

Prioritised Objectives	Actions	Time Frame	Resources	Success Criteria	Monitoring & Evaluation	Comments
To maintain outstanding progress and attainment across all phases. To raise science attainment in NAP assessment across the school- PTS, TIMSS, PISA to exceed the targets set for the school. PTS To further minimise the gap identified in PTS 2021-22 and accelerate the performance in content and process categories in PTS. Gaps Identified	 Continue to embed of critical thinking, analytical and graphical skills through TIMSS, PISA and SAT style questions in lessons. Further Embed Scientific Skill through scientific enquiry and investigation in lessons across all phases. Provide opportunities to stretch and develop their understanding through planning, open activities like plan their own experiment to investigate questions/opportunities to change question for example 'what if' scenario across primary. In Year 4, collaborate with maths department to integrate reinforcement of the topic data analysis in maths lesson using data from scientific findings. 	Ongoing	Personalized lesson plans SOW GAP analysis PTS report	Most of students continue to achieve above curriculum standards in Science and make better than expected progress	HOD, SID, HOS monitor provision (lesson observation, Book Look, SOW, Lesson plans, Data) termly with prompt action.	Improvement in scientific thinking and skills seen in internal assessments and in PTS. Most students effectively use their analytical and critical thinking skills to conclude and evaluate their prediction and findings.



Jeoet	~~~	SCHOOL DEVELOPMEN	I AND N	AP ACTION I	PLAN -SCIENCI	= -2022-2023	
Year 4 Content category- Physics, Reporting area- Application of knowledge and understanding data analysis. Year 5 Content category - Chemistry separation techniques. Reporting area - Application of knowledge and understanding. Year 6 Line graphs, use of line graphs, interpreting graphs, thermal insulators, reversible and irreversible changes. Year 8 Reporting area-Scientific skills Year 9 No major gaps identified	•	Ensure more practice questions in Year 6 on drawing line graphs with appropriate scales, and analysing where line graphs are the better choice to represent data. Include a science skill lesson in Year 8 and continue in Year 9 to include scientific skill component in all assessments to evaluate the progress in the skill. Increased opportunities to stretch and develop their understanding of science by reading a range of text in different scientific genres and writing their own explanation and conclusion using language of science.			Most students continue to achieve above curriculum standard in PTS		The introduction of skill lesson has impacted in scientific skills of students and Skill based PTS questions were easier for students which is evident in PTS report. Regular and continues monitoring to ensure outstanding students' outcome.



3		SCHOOL DEVELOPMEN	I AND N	AP ACTION	PLAN -SCIENCE -2022-2023	
Continue to maintain				TIMSS report	Achieve the	In Year 5, our score is
outstanding Attainment in				2019	target of 614-	above the average
TIMSS to exceed the targets set	•	Continue to work on 2023 target score, with			624 and ensure	score of outstanding
for the school for 2023		our in-depth and efficient gap analysis data		Game based	most of our	schools in Dubai and
		in place, personalized, timely support followed		learning	students	average score of top
Target score for 2023 for Year 5	•	by intervention and rigorous monitoring. Continue providing opportunities in lessons		lesson plans	achieve	performing countries in the world.
	•	for reading and analyzing data especially in		and tools	advanced	the world.
601-611		phase 2 and phase 3.			international	
Target score for 2023 for Year 9	•	Continue to use visible thinking and concept			bench mark and	Our school exceeded
ranger score for 2023 for fear 5		cartoons as starters in primary to further		Achieve the	above in TIMSS	TIMSS 2019 target
614-624		enhance inquiry and reasoning.	PISA	target of 531		score in Year 9 by 39
		cimalice inquiry and reasoning.			2023.	points. We are 43
<u>PISA</u>			report	and push in		points above the
Being the control of BICA to			PISA	to level 4		average score of Dubai
Raise the scores in PISA to	•	Continue to provide opportunities within	type	proficiency		Private Schools and
ensure large majority of our		curriculum and lessons to ensure students	questio	level.		above the average
students achieve proficiency		can use more complex or more abstract	ns and			score of top performing
level 4		content knowledge, which is either provided	assessm			country in the world.
Toward Soomer 521		or recalled, to construct explanations of				
Target Score: 531		more complex or less familiar events and	ents			Our School's PISA score
		processes.				of science is 521 which
		Continue to include PISA type questions in				is 21 points above the
		assessments.				average score of Dubai
		dosessificities.				schools and 11 points
						above the vision 2021
						national Target.



STUDENTS' ACHIEVEMENT (PS1) (1.3 Learning Skills)

Leader: Head of Science Primary and Secondary

ELT In-charge: Academic Advisor and Lead

Practitioner

Achievement Governor: Vice Principal

External Evaluator: Vice President-GEMS

Prioritised Objectives	Actions	Time Frame	Resources	Success Criteria	Monitoring & Evaluation	Comments	
Enhance communication skills in Science consistently with a greater focus on Students' interactions, collaboration, and communication skills Enhance innovation and use of learning technologies	 Communication skills: Continue to Ensure frequent opportunities for students to present their learning through in-depth discussions with rigorous use of scientific terminology, enhancing their communication skills. Effective provision to engage in Science related discussion through webinars, debates, Science Research journal and dialectics. Learning technologies: Ensure regular, consistent and innovative use of learning technologies in lessons, evident through lesson observations. Continue the use of Practical simulations and applets to further enhance the practical skills. 	Ongoing	PD/Modelling by outstanding practitioners as needed by the department (innovation) Lesson observations and feedback Student feedback Research Magazine-eureka Science magazine	Most students will be able to communicate their understanding of concepts in depth, as evidenced through their work samples and lessor observations. Most students are innovative, enterprising and independent learners and they can find things out for themselves using a variety of different sources. They use learning technologies independently effectively.	provision (losson	Communication is enhanced in lessons and beyond -students Leading, research club, Dialectics in Physics, Chemistry and Biology, Science Ted talk by enhancing their research and critical thinking skills. Students write science article and publish school research journal.	



Prioritised Objectives	Actions	Time Frame	Resources	Success Criteria	Monitoring & Evaluation	Comments
Improve the consistency of how well teachers • use time in lessons to maximise learning • adjust teaching strategies to ensure students of all abilities make the best possible progress • embed students' mastery skills to enable them to securely attain above curriculum standards • accurately assess the depth of students' understanding	Identify the teachers where effective use of AFL to adjust teaching strategies is the focus point and work with them explicitly through Team teaching Modelling Lesson conferences Paired and peer observations Buddy support from VG/O teacher Training focussing on effective use of data to personalise and effectively use AfL strategies measure progress and adjust strategies to ensure almost all students make better than expected progress. Ensure reflective practice where identified teachers record their individual lessons and evaluate use of time effectively in lessons. Raise challenge through effective questioning- higher order, open ended, enquiry based, extrapolatory questions and scenario-based learning	Identification and cascading by the end of October, implementati on, monitoring and support ongoing Ongoing	Pool of resources in phoenix folders including exemplar lesson plans, recorded lessons PD on effective questioning/ reflection sessions Sharing outstanding practices through Appreciative Enquiry and WINLEAPS Annotated lesson plans/SOW/Work Samples Rubrics TLP's, ILP's, IEPs Assessment trackers	Large majority teachers in Phase 4 and majority in phase1, 2 and 3 meet prioritized objectives and maximize progress for most students with personalised challenge and support. Most students in Phase 1 and 4 and Large majority in phase 2 and 3 make better than expected progress through impactful AFL and effective questioning. Most students across all phases engage effectively and collaborate meaningfully with outstanding social and personal development.	SLT in charge of departm ent ML and Teachers on a monthly basis Student leaders, LAB members on a termly basis.	Cascaded & Embedded following HLTPs: Learning menus, to provide differentiation/persor alisation and challenge Use of incremental challenge questions to deepen learning Big Question/ Big Idea, Hook questions to develop critical thinking Use of Pad-let wall, Nearpod, Google forms, for Collaboration Use of Kahoot, Quizzes, for Assessments Strategies like I see, I think, I wonder



		LITT AITE ITAL A		
Ensure teachers accurately assess				
students understanding and				
consolidate their learning through				
effective questioning- probing/funnel/				
hinge style				
Creating and celebrating a culture of	Ongoing			
Innovation				
Cascade and embed effective use of			Large majority of	
HLTP (High Leverage Teaching			lessons in Phase 1, 2	
Practices) like			and 3 are very good	
			and better by end of	
Personalisation to meet the needs,			Term 1 and	
peer teaching and mentoring,			Most lessons in Phase 4	
integrating critical thinking and	Ongoing		are very good and	
problem-solving skills through engaging			better with large	
activities that rely on competencies			majority outstanding.	
such as researching and brainstorming.				
Enabling a culture of self-reflection			All new teachers	
and development throughout the			develop a good	
school at all levels through reflection			understanding of	
by students in their lessons, teachers,		Lesson observation	outstanding practice	
middle leaders' sessions led by SLT,		арр	and expectations and	
respective ML and identified		IPP's	try implementing these	
outstanding practitioners	Ongoing		in their lessons	
		Pre and Post		
New teachers to observe		observation form	Existing teachers	
VG/Outstanding teachers along with		Peer observation	develop a reflective	
SLT/ML			culture that helps them	
			to further enhance	
Pre and post observation meet and			their teaching	
Meaningful discussions with teachers			pedagogies to continue	
to support in identified are			to secure their	
			practices	