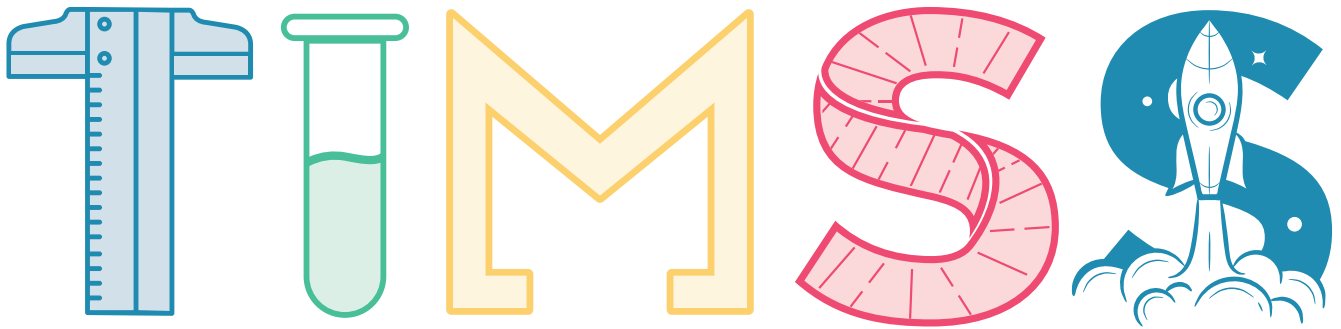




UNITED ARAB EMIRATES  
MINISTRY OF EDUCATION



Trends in International Mathematics and Science Study

# SCHOOL REPORT 2019

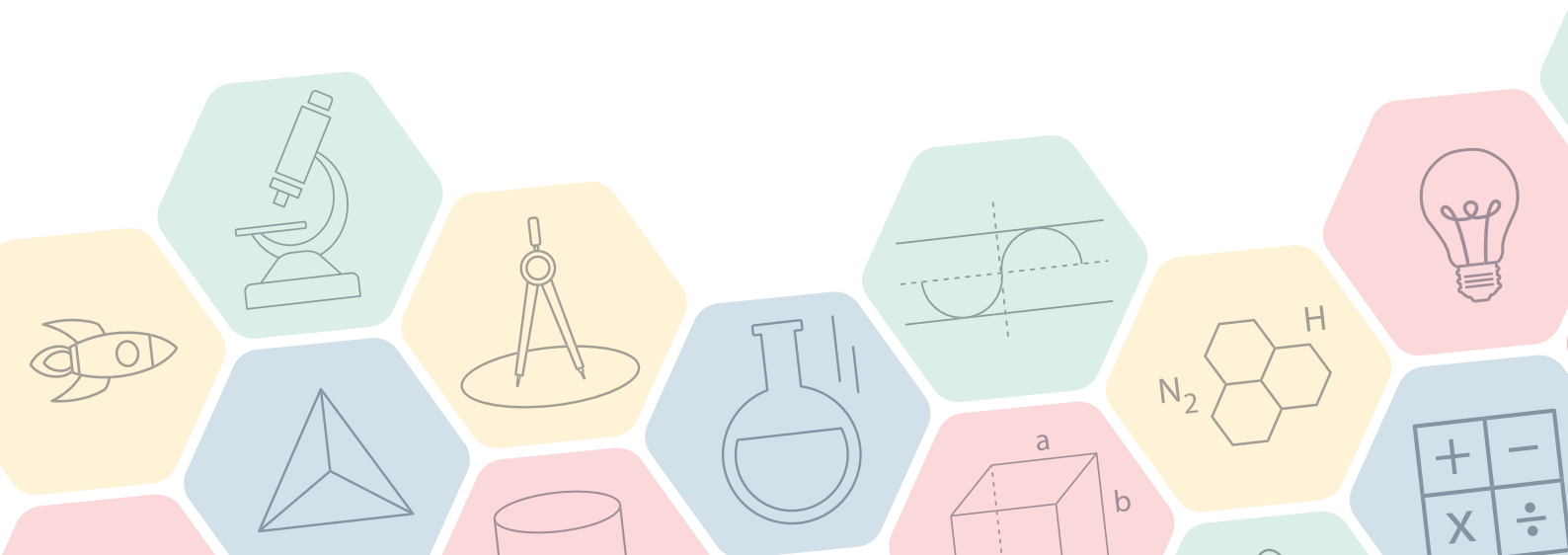
**School Name:** Providence Private School

**School ID:** 423

**Grade:** 4

**The Emirate:** Sharjah

**Curriculum:** UK



## Introduction

In 2019, the United Arab Emirates (UAE) participated for the third time in the Trends in International Mathematics and Science Study (TIMSS). H.H. Sheikh Mohammed bin Rashid Al Maktoum - the Vice President and Prime Minister of the United Arab Emirates and ruler of the Emirate of Dubai has included performance on TIMSS in the UAE National Agenda 2021 and set a target for the UAE to be among the 15 highest-performing countries.

This report summarizes the performance of your school based on TIMSS 2019 data as provided by the IEA (International Association for the Evaluation of Educational Achievement). The report will allow school leadership to compare the achievement of their students against:

- International TIMSS benchmarks
- UAE averages
- Progress towards the National Agenda 2021

The report also shows the progression of TIMSS performance in previous years and presents school leadership with new score targets for 2023.

The information and recommendations provided in this report are intended to inform school-level strategic plans, including school performance action plans, with the intention of increasing student academic achievement. The supporting documents provide specific recommendations aligned to the Ministry of Education (MoE) curriculum per benchmark to help your school transition from its current benchmark to the next. They also provide school decision-makers with both short-term and long-term recommendations which aim to improve factors affecting student performance.

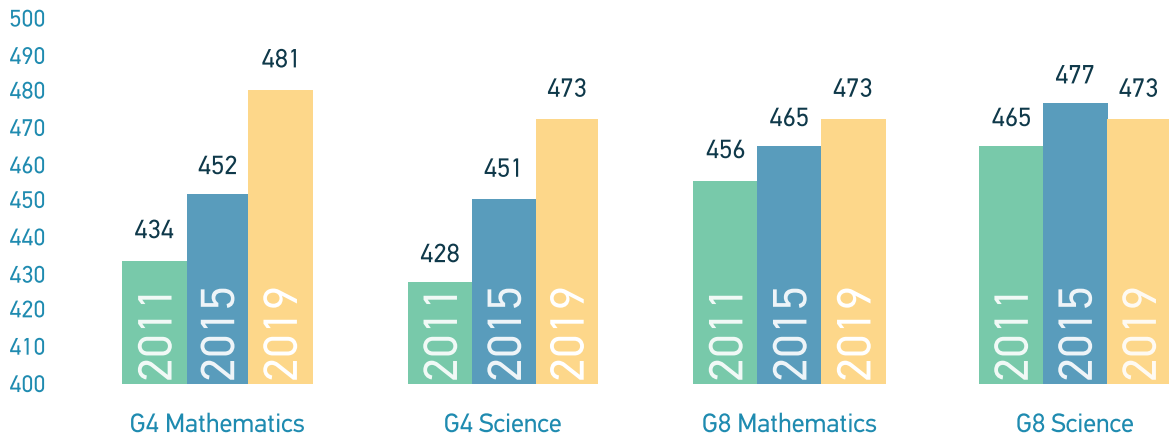
## Why TIMSS?

On an international level, TIMSS aims to provide global educational systems with the data and information to both design and develop effective educational policy and simultaneously compare and evaluate their own progress alongside that of others. Global TIMSS data pertaining to educational trends and that from individual countries and regions can be viewed and evaluated by all participants to inform their own internal needs, goals, or learning initiatives.

Student performance in TIMSS is recognized as a key indicator of progress in mathematics and science teaching and learning, functioning as a key initiative whereby the UAE seeks to gain and provide all stakeholders with accessible and reliable data to support and inform student learning. The tests are uniquely designed to measure different yet equally important components of knowledge-building ([Appendix I](#)). TIMSS achievement results are reported with a TIMSS scale average of 500 and standard deviation of 100. TIMSS uses the scale centerpoint of 500 as a point of reference that remains constant from assessment to assessment so that achievement can be monitored.

Since the UAE first participated in TIMSS in 2011, the performance of UAE students in grade 4 science, grade 4 mathematics, and grade 8 mathematics has improved steadily. Performance has regressed slightly in grade 8 science in 2019 after improving in 2015.

### Overall Trends in the UAE from 2011 to 2019



### Improvement from 2011 to 2019

	2011	2019	Change
<b>G4 Mathematics</b>	434	481	+47
<b>G4 Science</b>	434	473	+39
<b>G8 Mathematics</b>	456	473	+17
<b>G8 Science</b>	465	473	+8







## TIMSS Sampling

Every four years, TIMSS scores for each country are calculated via a representative sampling system of schools and classes. This data is collated by conducting a specific and formal process of sampling students, classes and schools from both Grades 4 and 8 in all schools across the country, including those which may fall outside the direct control of the MoE. A representative TIMSS sample normally includes a minimum of 150 schools and 4,000 students in order to ensure the required level of statistical accuracy, with algorithmic sampling to ensure statistically accurate representation across all areas in every country.

In 2019, all public schools in the MoE were included in the sample, as well as all schools with a UK, US, and IB curriculum, plus all private schools in Dubai in addition to a random selection of private schools which deliver their curriculum in English or Arabic across the country. Within each school, two sections were sampled in grade 4 and grade 8. Additional information regarding sampling specific to the UAE can be found here: [Sample Design in TIMSS 2019](#).

## UAE Participation

Number of schools and students participating in TIMSS 2019 in the UAE can be seen below:

	 Public	 Private	 Total	
<b>Student Counts</b>	<b>Grade 4</b>	7,827	18,007	25,834
	<b>Grade 8</b>	8,243	14,091	22,334
		16,070	32,098	48,168
<b>School Counts</b>	 Public	 Private	 Total	
	<b>Grade 4</b>	213	475	688
	<b>Grade 8</b>	221	402	623

## TIMSS in the UAE

Since its first participation in 2011, the UAE has made significant progress in TIMSS performance with steady improvement in the national average. The UAE, however, currently stands outside the world's top 15 performing countries in TIMSS results, which has been designated as a goal of the National Agenda 2021 initiative, although now significantly exceeding the MENA (Middle East and North Africa) average score in all areas:

### UAE 2019 Performance Compared to MENA and Top 15 Threshold

	UAE	MENA	TOP 15 Threshold
<b>G4 Mathematics</b>	481	431	535
<b>G4 Science</b>	473	432	528
<b>G8 Mathematics</b>	473	435	500
<b>G8 Science</b>	473	446	513

### UAE International Rankings\*

	2011	2015	2019
<b>G4 Mathematics</b>	42 Out of 53	35 Out of 47	34 Out of 58
<b>G4 Science</b>	43 Out of 53	35 Out of 47	33 Out of 58
<b>G8 Mathematics</b>	23 Out of 42	19 Out of 39	23 Out of 39
<b>G8 Science</b>	24 Out of 42	22 Out of 39	25 Out of 39

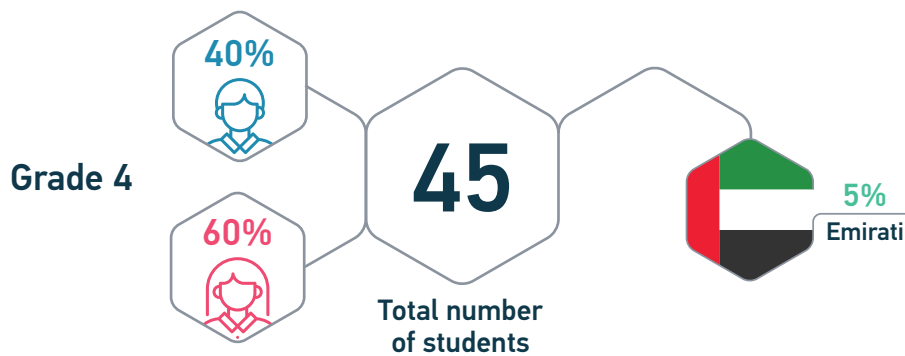
\*The ranking includes all countries participating in TIMSS 2019, excluding the benchmarking participants.

Full details of the most recent international TIMSS rankings and performances of all countries can be viewed here: [TIMSS 2019 International Results](#).

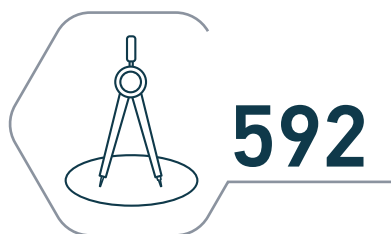
# Your School's TIMSS 2019 Results

This section contains descriptive statistics of your school and a summary of your school's results on the TIMSS scales of content and cognitive domains.

## School Demographics



## TIMSS Results



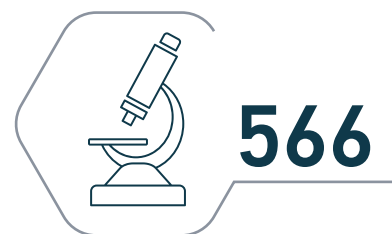
### Mathematics

#### Content Domains

Number	599	●
Geometry	592	●
Data	581	●

#### Cognitive Domains

Knowing	601	●
Applying	601	●
Reasoning	579	●



### Science

#### Content Domains

Life Science	556	●
Physical Science	578	●
Earth Science	573	●

#### Cognitive Domains

Knowing	590	●
Applying	556	●
Reasoning	553	●

## Mathematics and Science Scores on a TIMSS Benchmark Scale



**592**

Mathematics



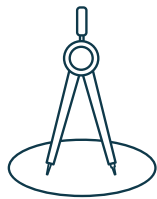
**566**

Science

In mathematics, your overall score is **592** which places your school within the **High** international benchmark.

In science, your overall score is **566** which places your school within the **High** international benchmark.

### Percentage of Students in Each Benchmark



Mathematics

Below Low	Low	Intermediate	High	Advance
0%	0%	16%	62%	22%



Science

Below Low	Low	Intermediate	High	Advance
0%	10%	31%	39%	20%

Full benchmark descriptions can be found in [Appendix II](#) and [Appendix III](#).

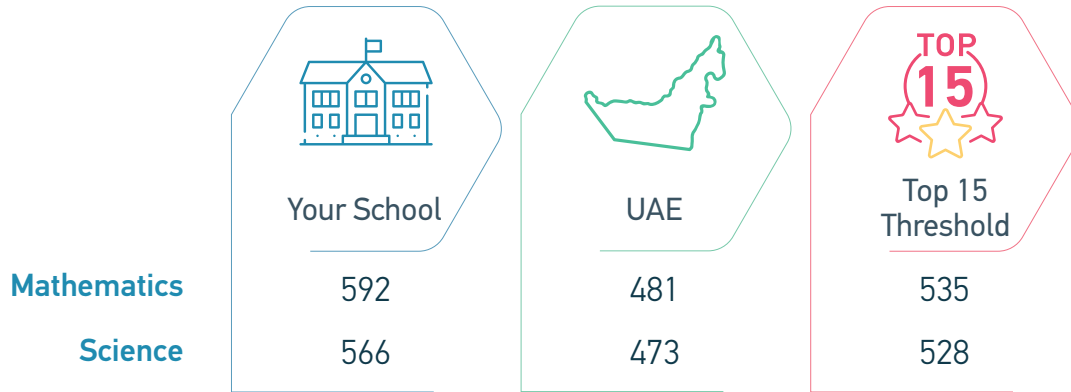
### Curriculum Recommendations

Recommendations based on where your students scored within TIMSS Mathematics and Science International benchmarks can be found in [Appendix V](#) and [Appendix VI](#).



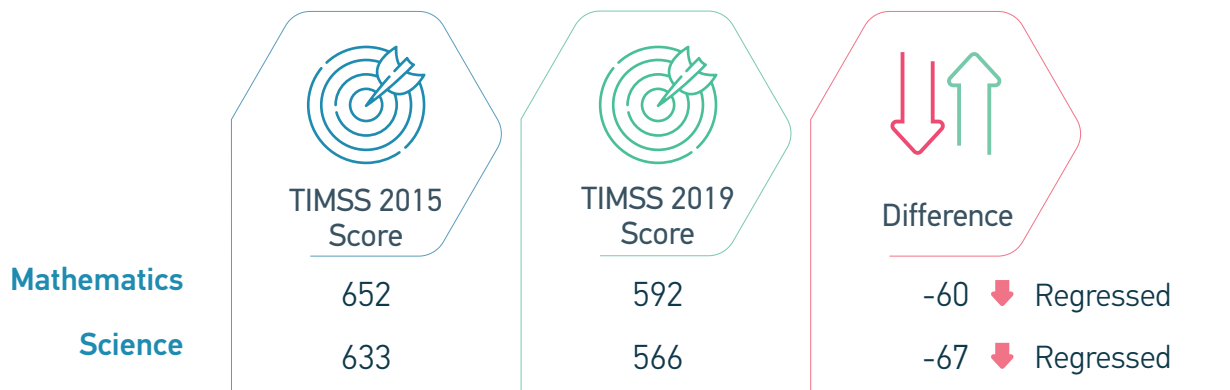
## Result Comparison

This section compares your school's 2019 results to the rest of the UAE and its progress towards the Vision 2021 National Agenda target for TIMSS to rank among the top 15 performing countries.



## Historical TIMSS Data

The charts below show your school's results compared to previous targets and cycles.



\* If there is no TIMSS 2015 Score, your school was not sampled in that cycle of TIMSS.

