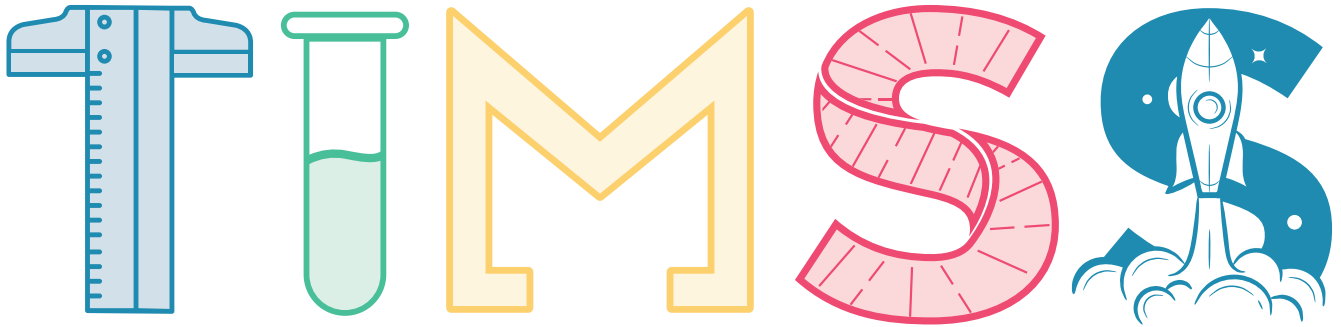




UNITED ARAB EMIRATES  
MINISTRY OF EDUCATION



Trends in International Mathematics and Science Study

# SCHOOL REPORT 2019

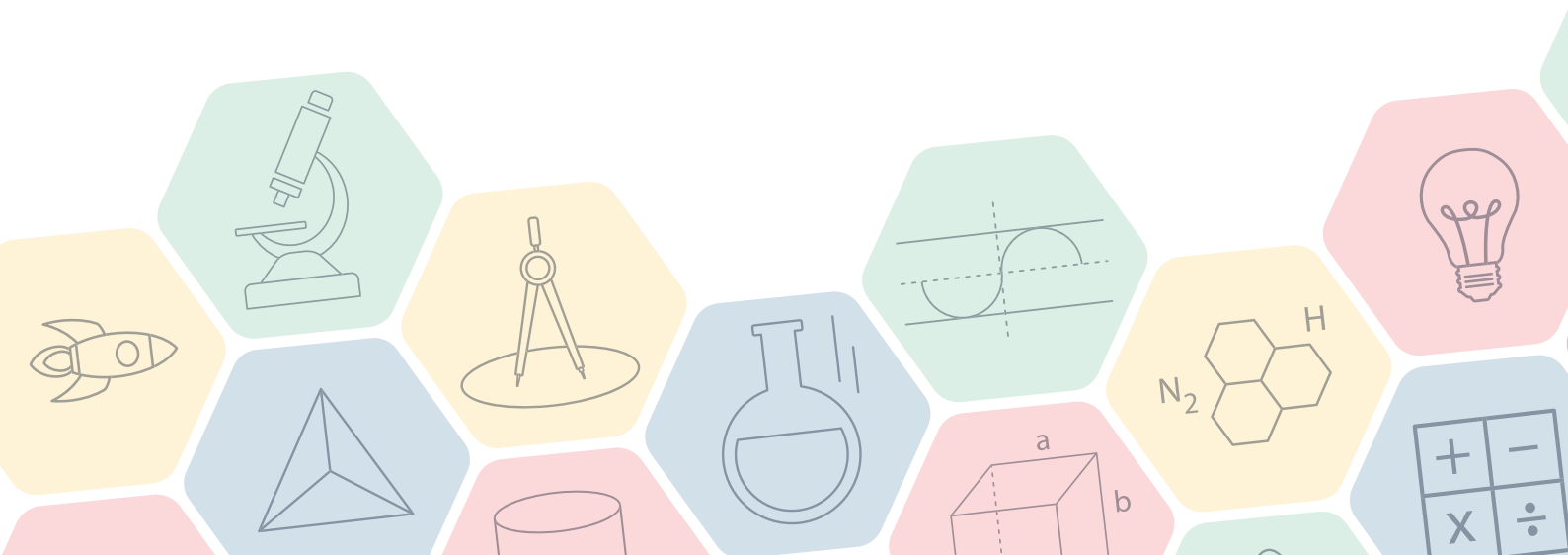
**School Name:** Providence Private School

**School ID:** 423

**Grade:** 8

**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?

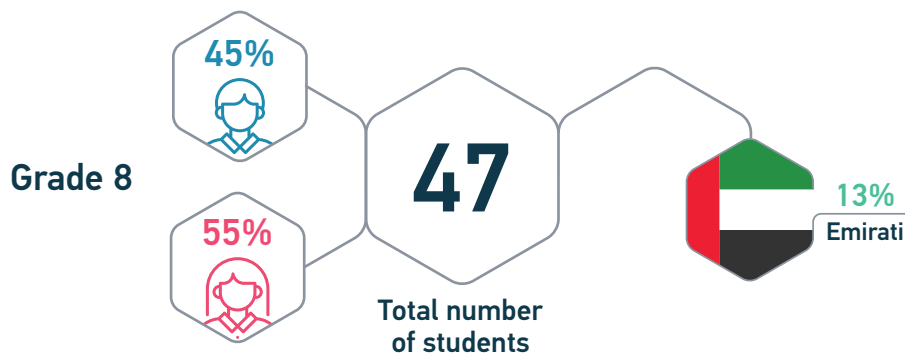
On an international level, TIMSS aims to provide global educational systems with the data and information to both design and develop effective educational policy and simultaneously compare and evaluate their own progress alongside that of others. Global TIMSS data pertaining to educational trends and 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.

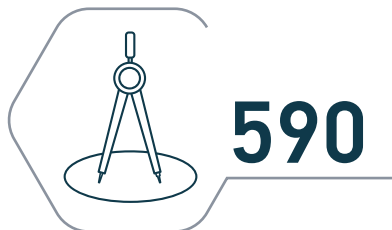
# Your School's TIMSS 2019 Results

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



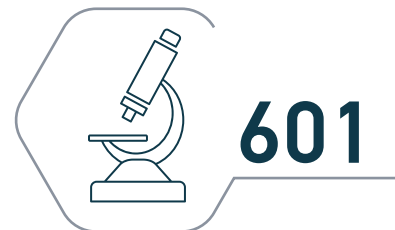
### Mathematics

#### Content Domains

Number	589	●
Algebra	610	●
Geometry	593	●
Data & Probability	575	●

#### Cognitive Domains

Knowing	599	●
Applying	588	●
Reasoning	598	●



### Science

#### Content Domains

Biology	613	●
Chemistry	613	●
Physics	596	●
Earth Science	593	●

#### Cognitive Domains

Knowing	622	●
Applying	603	●
Reasoning	584	●

## Mathematics and Science Scores on a TIMSS Benchmark Scale



**590**

Mathematics



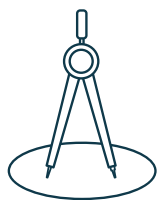
**601**

Science

In mathematics, your overall score is **590** which places your school within the **High** international benchmark.

In science, your overall score is **601** which places your school within the **High** international benchmark.

### Percentage of Students in Each Benchmark



Mathematics

Below Low	Low	Intermediate	High	Advance
1%	3%	20%	48%	29%



Science

Below Low	Low	Intermediate	High	Advance
1%	3%	17%	41%	38%

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

### Curriculum Recommendations

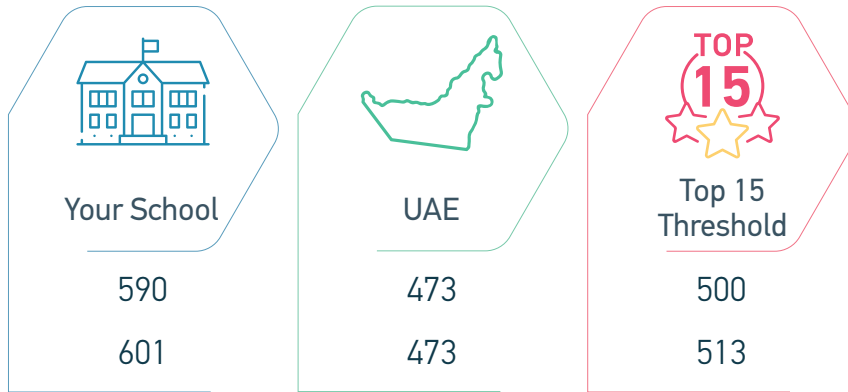
Recommendations based on where your students scored within TIMSS Mathematics and Science International benchmarks can be found in [Appendix V](#) and [Appendix VI](#).



## 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.

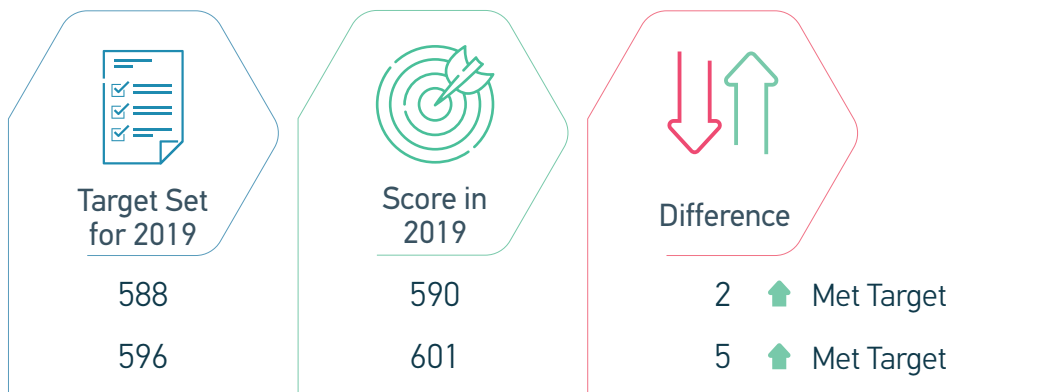
**Mathematics**  
**Science**



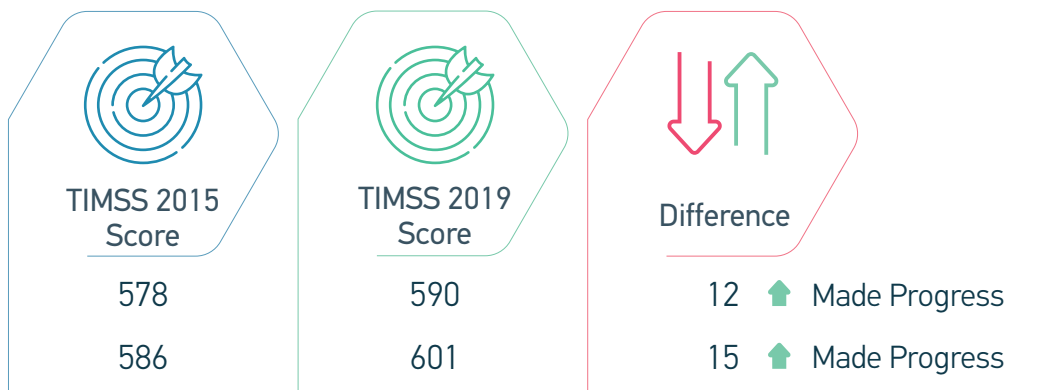
## Historical TIMSS Data

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

**Mathematics**  
**Science**



**Mathematics**  
**Science**

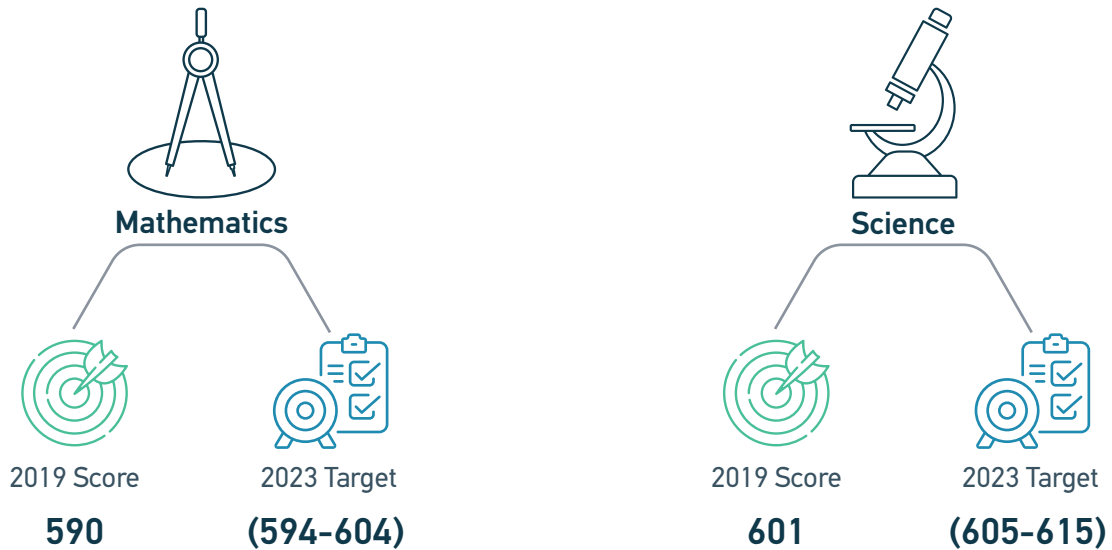


\* If there is no TIMSS 2015 Score, your school was not sampled in that cycle of TIMSS.



## Target Scores for 2023

The approach to targets has changed slightly in 2019, to include a range of values aimed at providing schools with greater flexibility. The targets are meant to be ambitious yet attainable for all schools.



## Context Questionnaire Analysis

The TIMSS context questionnaire analysis is informed by surveys taken by students who participated in TIMSS 2019, their teachers, and school leadership. These surveys include policy-relevant questions pertaining to factors that may affect student learning and performance in international examinations.

The survey responses have been standardized and scaled by TIMSS using Item Response Theory. The higher the score on each of the factors affecting performance, the better your school has performed on this factor. The complete explanation of the derivation of the scales can be found here: [TIMSS 2019 Technical Report](#)

The chart below compares your school to the UAE average in factors that have been identified to impact student performance by TIMSS: [TIMSS 2019 Context Questionnaire Analysis](#).