



FOUNDATION FOR LIFE

XSEED STUDENTS SHOW STUNNING POST-COVID **RESULTS**

A young boy with short dark hair and a gentle smile is looking at a laptop. He is wearing black earbuds with visible wires. The laptop is dark grey or black. The background is a light blue wall with some texture and a yellow vertical element on the right. To the left, there are some green plants and a tree branch.

Annual XSEED
Results Report 2022

xseededucation.com

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XSEED Students Show Stunning Post-Covid Results

Annual XSEED
Results Report 2022



XSEED

Learnometer Skills Test

Summary Results

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Founder's Note

We are delighted to share the *Annual XSEED Results Report 2022*. The outcomes are amazing and give reason for much hope for all.

This report is based on the National Learnometer Skills Test which assesses a student's ability to apply their knowledge, not just recall it. More than 61,000 students in 21 states of India have taken the test. Over time we will expand it to other countries. Included here are the six most important findings of this study and its four key implications for parents, educators, and administrators.

Over the past couple of years parents have been rightly concerned about COVID learning loss. These results clearly demonstrate that at least for XSEED students, there is a solid recovery underway. Of the many positives here, for me two are especially remarkable:

The immense value of investing in a child's educational foundation. In the critical middle-school grades (6, 7, 8) XSEED students show a 20% superior performance versus non-XSEED students. This underscores their better foundational preparation for the higher grades, board exams, and entrance tests.

The XSEED program benefits children who need help most. Struggling students and lower-fee schools, both, have the highest gains when they can commit to the XSEED program. That is most gratifying.

XSEED is dedicated to improving learning outcomes and results for all children. Not just in mastery of facts and knowledge, but in SKILLS and capabilities of Conceptual Understanding, Problem Solving, and Communication. The numbers speak for themselves and affirm alignment between word and action. That energizes us for future action and further improvement.



**Ashish
Rajpal**

Founder,
XSEED Education

Methodology

The Learnometer Skills Test

Conducted by Singapore headquartered XSEED Education, the Learnometer Skills Test is a 90 minute (grades 1–4) to 120 minute (grades 5–8) computer-based exam of skills in English, Maths, and Science. Beyond subject scores it measures three CORE SKILL areas required of all students: conceptual understanding, problem-solving, and communication. It is generally considered a more difficult test than traditional ones as it requires students to apply their knowledge rather than just recall facts and formulas.

Participants

This test was conducted with over 61,000 grade 1–8 students in schools spanning 21 states of India, including those following CBSE, ICSE, and various state boards, from November 2022. These schools use the XSEED System of teaching and learning, which runs from pre-primary to Grade 8.



61,000+ Students

Grades 1-8

21 States Across the Country

Key Finding

01



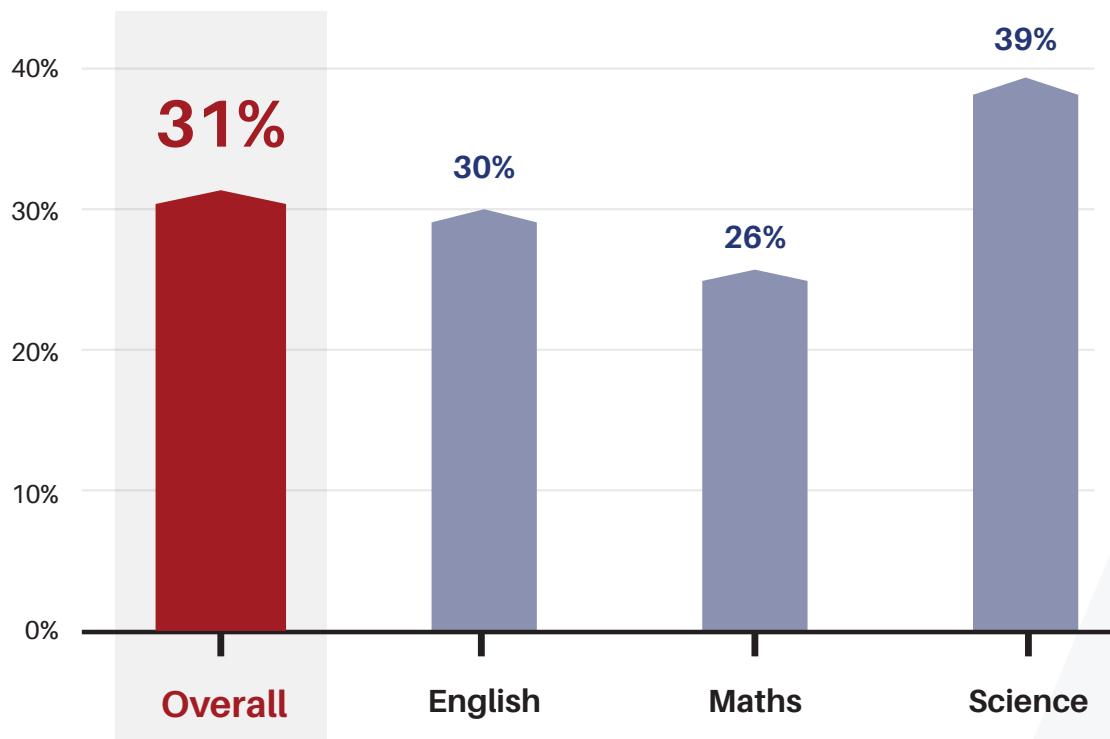
+31%

Improvement
in Same-Student
Performance in One Year

Students using the XSEED Program showed a remarkable **post-COVID recovery of +31% same-student improvement** in scores versus last year.

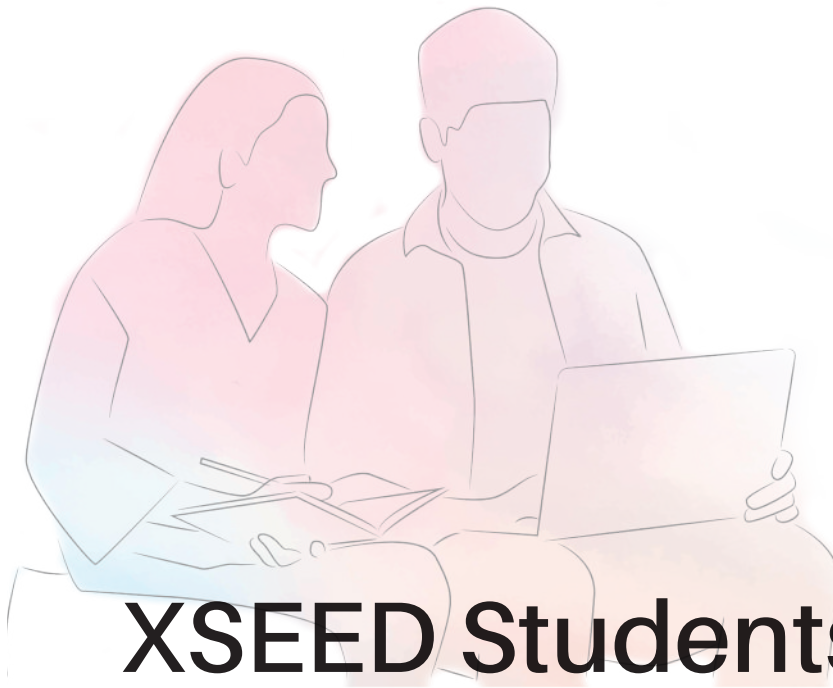
This was underpinned by significant improvements in all subjects: English (+30%), Maths (+26%), and Science (+39%).

Improvement in Core Thinking Skills



Key Finding

02

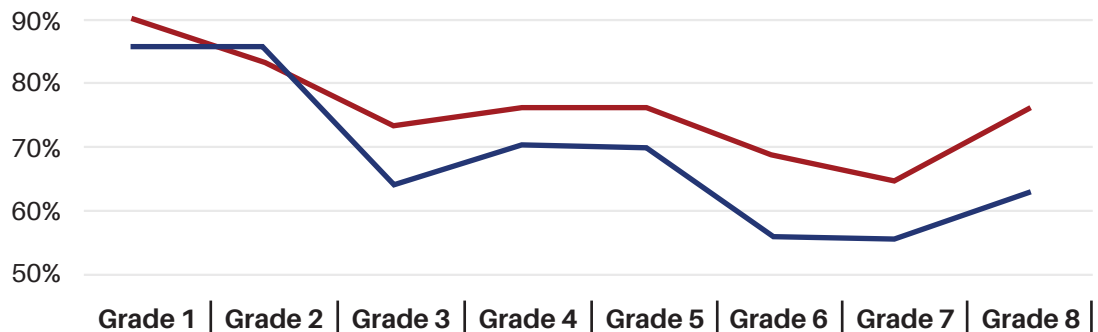


**XSEED Students
outperform Non-XSEED
Students by**

+21%

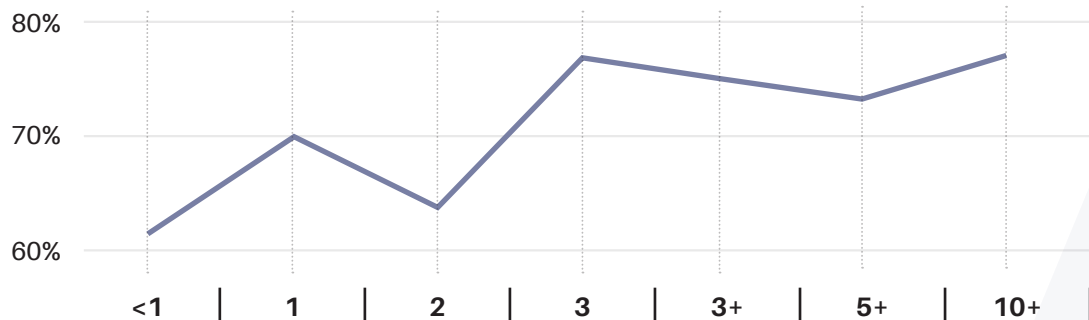
Amongst schools using the program for three or more years, **XSEED students scored 21% higher versus non-XSEED students** by the time they reach the demanding middle school years (Grades 6, 7, 8).

XSEED vs Non-XSEED after 3 years



Generally students tend to score lower as they move to higher and more difficult classes. XSEED seems to reverse this trend.

Middle School scores by years of XSEED



Note: For the purposes of this study, 'non-XSEED students' are those in schools who have just adopted the XSEED program in the current academic year.

Key Finding

03



Communication Skills
in English improved by
+47%

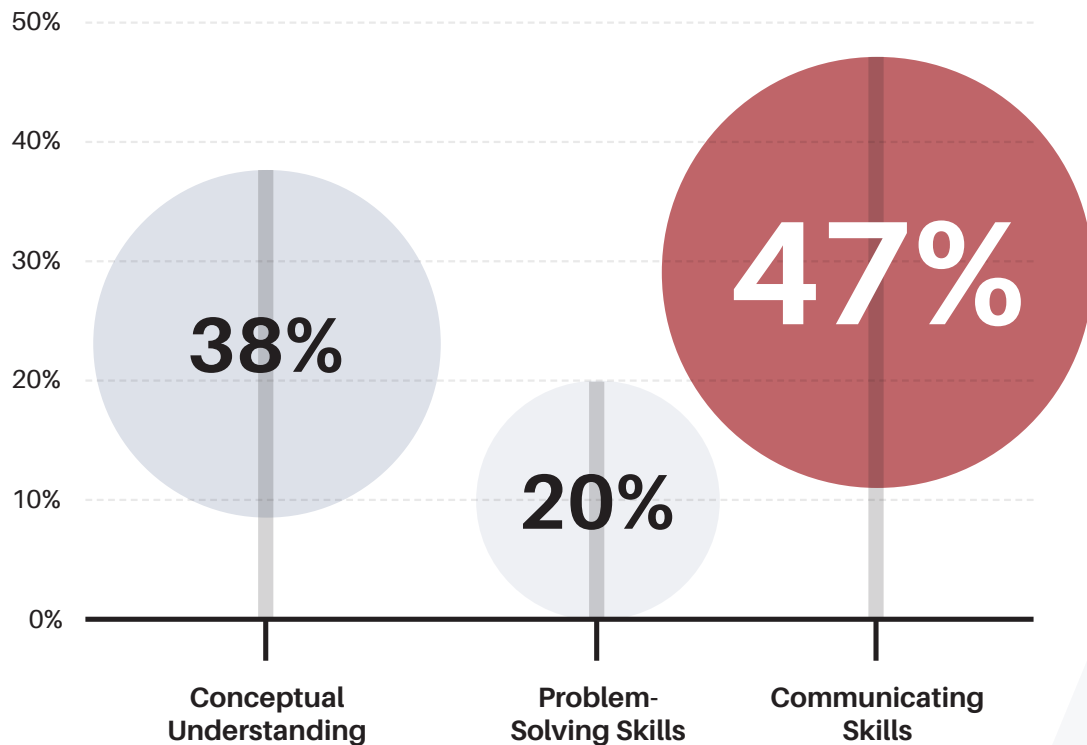


"In my last school, they would give us the answers and have us mug them up for tests. Learnometer was different because we had to figure the questions out. The teachers here [in my XSEED school] give us questions and have us answer them on our own, which makes us think on our own too."

Anwasha | Grade 6 XSEED Student

While scores in all three skill-areas showed a marked increase, **Communication Skills saw the biggest gains at 47%.**

Improvement in Core Thinking Skills



Key Finding

04

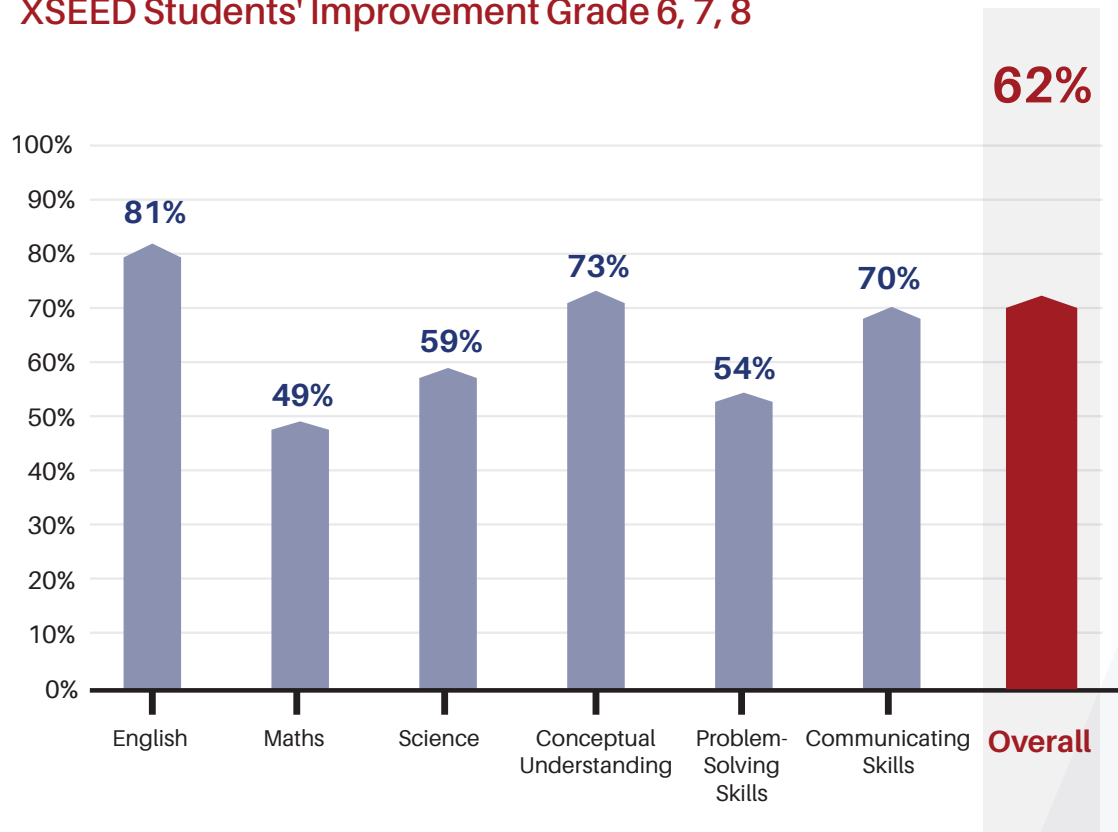


Annual gains in the
higher grades (6, 7, 8)
are the most dramatic at

+62%

XSEED students in the demanding middle-school years (grades 6, 7, 8) showed a **+62% improvement** in scores. These big gains are driven by underlying improvements in all skills and subjects, but most in **mastery of English (+81%)** and better **Conceptual Understanding (+73%)**.

XSEED Students' Improvement Grade 6, 7, 8





Key Finding

05

Struggling students improve enormously with gains of

+55% to +136%



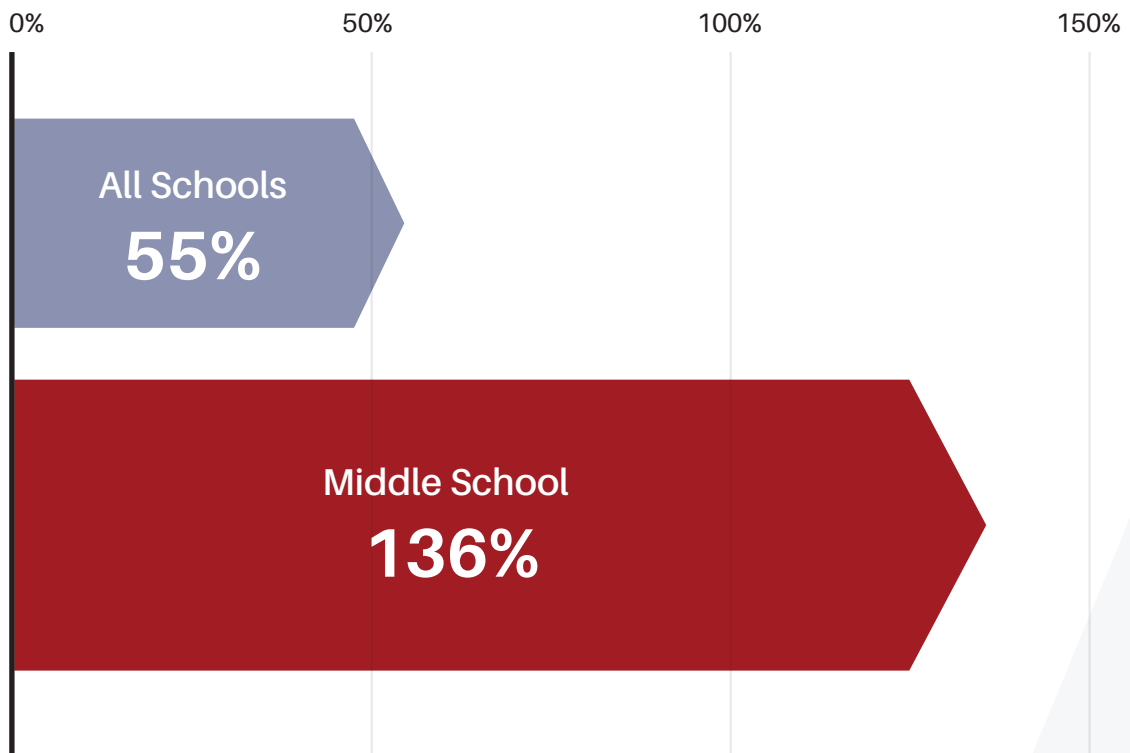
"On the Learnometer test, we actually need critical thinking skills to do well – while other tests are mostly just about what we've memorized. After learning each lesson in XSEED, we had a lot of practice questions which tested our skills. I think this helped me improve my score this year."

Isha | Grade 7 XSEED Student

The results show benefits of the XSEED Program for the **lower performing students** – **scores improved by 55%** (for bottom-tertile i.e. students falling in the lowest third of all test takers).

In middle school the gains for such students are even higher at an astounding **136%**.

Improvement of Students in the Lowest Tertile





Key Finding

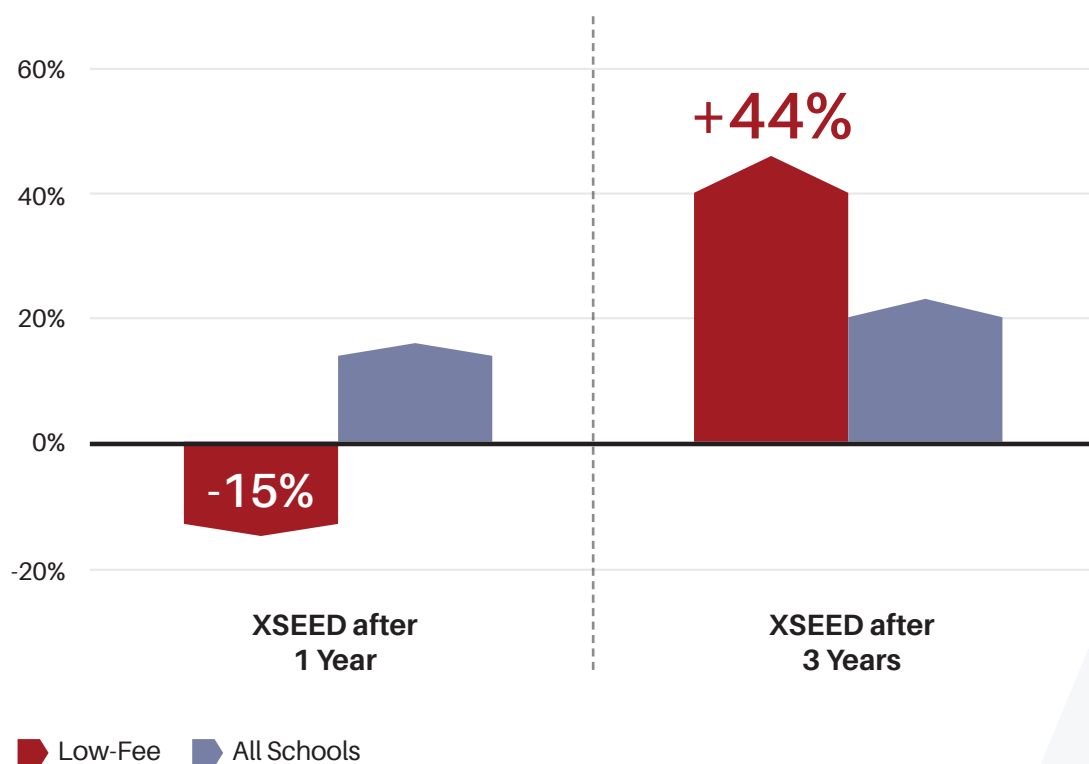
06

Even lower fee schools
benefit greatly, with gains
of **+44%** if they
persist with the program

Interestingly, **lower-fee* schools** taking the XSEED program show 15% lower scores than non-XSEED peers after one year of adoption.

However, most amazingly, after three years of implementing the program they show the **highest gains of +44%**.

XSEED Performance in Low-Fee Schools



*below Rs 20,000 annual fee

What Parents Say



"Learnometer is not just a random test. It tests the concepts that the child has understood. It really gives you a sense of the progress she's making - where your child was, and where she is today. Even for a parent, it helps us understand where we can contribute to help our child grow further."

Shweta Shenoy

Mother of Grade 5 XSEED Student



"What I like about the Learnometer is that it shows how [my daughter] can apply her knowledge and skills. She was able to get excellent results through her own capability - without help from teachers or anyone else. When I saw the report, I was very proud."

Abhishek Natani

Father of Grade 3 XSEED Student



"The children do not mug up a syllabus to appear for the Learnometer test. It gives a view as to how would my child do if he were answering the CBSE [board exam] today. The Learnometer assessment is very much required for our kids."

Paromita Sarkar

Mother of Grade 7 XSEED Student

What Educators Say



“When students started coming to school again this year, we could see there were learning gaps. But the Learnometer gave a clear idea of how far we’ve succeeded in bridging those gaps. Skills are actually tested, and we are able to see how much of the learning has been internalized. In particular, the XSEED curriculum has given students a lot of scope for crystallizing their communication skills.”

Sandhya Siddharth

Director/Secretary
Samved School, Bangalore



“At the end of the day, the Learnometer is a test of the holistic development of the child. The results are not just scores on a test paper – we can also see them in the live transformation of every child ... on skills like listening and speaking, and analytical thinking. Parents are amazed by this transformation as well.”

Moatemsu Longkumer

Proprietor & Administrator
Bridges Academy, Nagaland



“With XSEED Learnometer, we get to know where our students stand on a national platform – not just on knowledge, but also skills. Where am I? In terms of understanding, in terms of communication ... The diagnostic reports tell us exactly what we need to do [to improve]. Every school should take up Learnometer. ”

Dr. Pampa Chaudhuri

Director Principal
PICT Model School, Pune

What Children Say



"The Learometer test was very helpful to me because the questions were very unique and allowed me to think based on logic. My XSEED classes really helped me with this test because the questions there also rely on logical thinking. If you can understand the questions well, it's really fun answering them."

Aratrika / Grade 7 XSEED Student



"The XSEED Learnometer questions are not so easy ... You have to think about what is the logic behind each one. I also think the experiments in XSEED Science classes really helped me understand the questions about experiments and data charts."

Hozefa / Grade 7 XSEED Student



"In the [XSEED] classroom, we get questions where we have to think and give our perspectives. So we'd already have some practice thinking more deeply about the topics, which would help us in the Learnometer test. I think the Learnometer exam will help students to improve in critical thinking ... for higher grades and also for the rest of their lives."

Yuvan / Grade 7 XSEED Student



"The Learnometer Test is very different from other tests. We can't answer the questions by memorizing ... we have to think a lot and read carefully to answer. In XSEED classes, we have to critically think and improve our skills. This helps us on the Learnometer too."

Yusra / Grade 5 XSEED Student

Implications

The 2022 Learnometer Skills Test results have several encouraging implications for K-8 education. We have identified four strands or hypotheses which merit deeper thought and exploration by parents, teachers, and administrators. These could also be very exciting areas for further research.

#1

Fostering **INDEPENDENCE** in learning

In a year where most systems struggled, XSEED students managed to rebound from COVID with a +31% same-student improvement. How come? An explanation ventured by a school leader is that XSEED students were “already independent learners” when COVID hit, and hence **better weathered the sudden reduction in school and teacher support.** The XSEED Method requires students to be constantly doing things on their own, reflecting and making meaning, and coming up with independent answers to questions.

This independence in the learning process seems to not only deliver better outcomes, but makes them less dependent on environmental support.

#2

Investing in **LANGUAGE** mastery

XSEED students have long had the reputation for “speaking and writing well in English ... in their own words.” This is the result of an interactive program where children are encouraged to speak in class and to write in their own words, instead of copying from the board or taking dictation. Now the results indicate that **this ‘investment’ is bearing fruit in all subjects**, and especially in higher grades where ‘understanding’ becomes even more important. In school systems where the medium of instruction is a non-native language, most children struggle – to understand what they are studying, to figure out what is being asked in tests, to express themselves in class.

Any such school system looking to address this can draw useful lessons from the program.

#3

Reducing the MIDDLE SCHOOL SLUMP

Worldwide, students' grades tend to dip in the middle grades as difficult and abstract concepts come in, especially in mathematics and science. While this 'middle school slump' was not eliminated for XSEED students, it was greatly reduced. The results also hint at why this might be: advantages of XSEED middle school students over non-XSEED peers in **communication (29%) and conceptual understanding (22%) may help them keep up**. If further studies confirm this, it would be a compelling reason to focus on these foundational skills from the early grades onward.

This is consistent with the 'foundational literacy and numeracy' emphasized in India's new National Education Policy (NEP 2020).

#4

Overcoming CHALLENGING CONTEXTS

Finally, an effective teaching/learning process may help to overcome challenging contexts – **if given the time to work**. Among students, the so-called 'weakest' (i.e., bottom tertile) students of all ages improved, but it took until middle school to see maximum benefit (+136%). For schools, those with lower fees tended to benefit disproportionately and dramatically from the XSEED program, but this took around 3 years to materialize.

Thus while there are no 'quick fix' solutions, both parents and schools should consider investing in a quality academic program. Persistence, with the right process, pays.



Sample
Question

English

Reading Comprehension (Grade 7)

Learnometer Question

Question 4

40:24 mins

Read this conversation and answer the question.

I was at the window looking at the street.

"I see a fashionable lady walking, followed by four people. A young boy is pointing at her and gesturing. What is happening, Poirot?"

Poirot came to the window and looked. He answered my question immediately.

"My dear Hastings, that is Miss Mary Marvell, the film star. Her admirers have recognized her and they're following her."

"But you get no marks for that, Poirot. It's just a matter of recognition"

"How many times have you seen her on the screen, Hastings?"

"About a dozen times."

"And I—once! Yet I _____ her."

"But she looks nothing like she does on screen!" I replied.

"Do you expect her to walk the streets dressed as a character?" cried Poirot.

[Adapted from *Poirot Investigates* by Agatha Christie]

Why can't Hastings identify Miss Marvell?

A He has never seen her.

☐

B He has only seen her once.

☐

C She passes by too quickly.

☐

D She looks so different.

☐

The Learnometer Skills Test is considered more difficult than traditional tests because it requires higher-order thinking skills rather than just recall of knowledge.

Traditional Test Question

Androcles was ordered to fight a huge lion, that had been kept hungry for two days. He was sure the lion would tear him to pieces. So, he was sad to be back. A large crowd of people had come, to see that fight. The lion was let loose, into the arena where Androcles had been made to enter. The beast came roaring aloud, out of its cage, looking fiercely. As the lion neared him, people got excited to see the bloody drama. But, suddenly, the lion stopped roaring and became calm. Instead of attacking Androcles he crouched at his feet and began to lick his hands. Tears of joy welled up in Androcles' eyes and he embraced the lion. It was the same lion, with whom Androcles had lived in den, for many days.

Question 1.

With whom was Androcles ordered to fight with?

- (a) a huge lion
- (b) a lion
- (c) a tiger
- (d) a slave

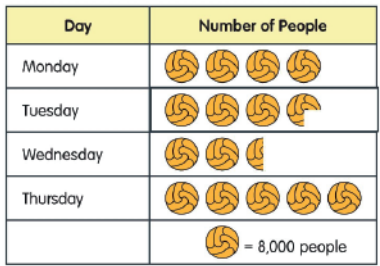
Sample
Question

Mathematics

Data Handling (Grade 8)

Learnometer Question

The pictograph shows the number of people who watched soccer games during the week. The broadcasters predicted that on Friday, the number of people watching would be $1\frac{1}{2}$ times the number of people who watched the game on Tuesday.



What is the estimated number of people who would watch the game on Friday?

A 42,000



B 48,000



C 30,000



D 45,000



The Learnometer Skills Test is considered more difficult than traditional tests because it requires higher-order thinking skills rather than just recall of knowledge.

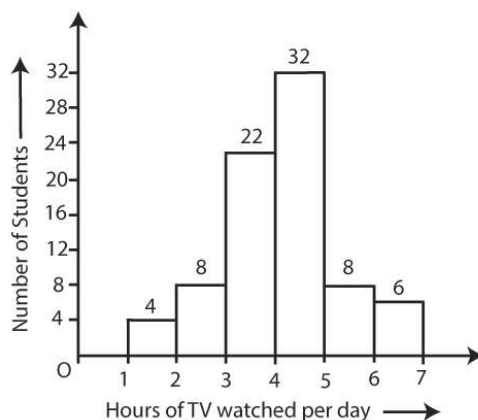
Traditional Test Question

Question 5:

The number of hours for which students of a particular class watched television during holidays is shown through the given graph.

Answer the following

- (i) For how many hours did the maximum number of students watch TV?
- (ii) How many students watched TV for less than 4 hours?
- (iii) How many students spent more than 5 hours in watching TV?



**Sample
Question**

Science

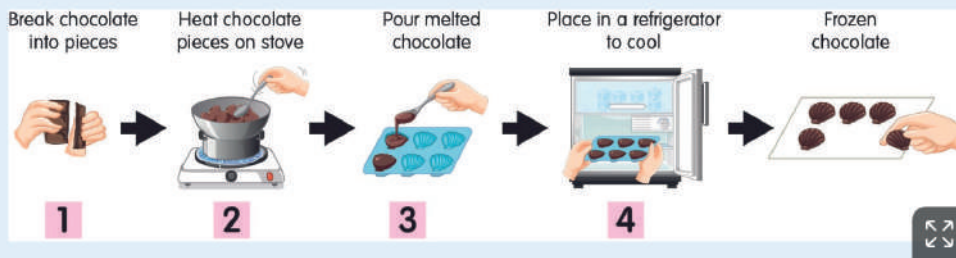
States of Matter (Grade 4)

Learnometer Question

Question 24

01:28:23 hrs

Look at how chocolate changes when it is melted.



Which step shows chocolate changing from liquid to solid?

A Step 4

☐

B Step 2

☐

C Step 3

☐

D Step 1

☐

The Learnometer Skills Test is considered more difficult than traditional tests because it requires higher-order thinking skills rather than just recall of knowledge.

Traditional Test Question

Q. The process of changing of liquid into gas is called _____

answer choices

- | | |
|--------------------------------|------------------------------------|
| <input type="radio"/> Melting | <input type="radio"/> Condensation |
| <input type="radio"/> Freezing | <input type="radio"/> Evaporation |

Q. Particles are closely packed in a _____

answer choices

- | | |
|------------------------------|------------------------------------|
| <input type="radio"/> Liquid | <input type="radio"/> Solid |
| <input type="radio"/> Gas | <input type="radio"/> All of these |

About XSEED Education

XSEED Education is a Singapore-based education program based on proven teaching methodology that significantly improves conceptual thinking and problem-solving skills, strengthens English language expression, and enhances confidence. It aligns with all major International (including US Core, Cambridge, Singapore, PH Dep. Ed) and Indian (CBSE, ICSE, State) standards and syllabi. The XSEED academic program runs through schools and is for children studying in Nursery to Class 8.

XSEED has reached two million children and upskilled and certified over 100,000 teachers globally, including in India, Philippines, and the Middle East. XSEED SuperTeacher, is a first-of-a-kind fully loaded teaching & learning app for teachers that can be used in both physical and online classes. The World Innovation Summit in Education (WISE) & MIT's Legatum Center have featured XSEED among path-breaking global innovators in education.

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