

What can a
‘Good Question’
Accomplish?

A good question can give you answers that you weren't expecting, but answers that students and educators need to know to achieve learning with understanding.

Ei ASSET

Asking the Right Questions for the Right Learning

Introducing **Ei** ASSET

It is a skill based diagnostic assessment that evaluates students' conceptual understanding, benchmarks school performance and provides actionable insights through easy-to-understand reports.



How Ei ASSET Diagnoses Learning Gaps and Improves Learning Outcomes?



Asks questions that diagnose understanding

Good questions that challenge students and evaluate how well they have understood core concepts.



Get detailed analytics to understand gaps

The responses provided by students, especially when incorrect, generate valuable data points that offer insights into their learning progress. Each question and its options are associated with a rich historical dataset, which allows for a comprehensive understanding of learning gaps and the underlying reasons behind students' mistakes. By analysing student responses in relation to the data on common misconceptions, Ei ASSET accurately pinpoints the specific areas that need additional support.



Actionable insights to help with interventions

Based on the information gathered, we take specific actions to help students with their learning gaps. We provide tailored practice questions for each student. Teachers and the management receive detailed reports on the academic health of each class and the entire school.

What is a Good Question?

So, what is a good question?

Over the last two decades, we at Ei have created tens of thousands of assessments and have also studied the assessments used in our schools as well as the school-leaving exams. Based on our collective experience over this period, we have identified certain key principles of making good questions that, if adhered to, can improve the quality of assessments and by extension also improve students' learning outcomes.

1. Testing core knowledge instead of peripheral facts

Assessments should primarily check for a student's understanding of key concepts. It is also okay if they test for certain facts if those facts are core to the subject.

2. Questions should be asked in an unfamiliar way

Traditional questions rarely use unusual or unfamiliar contexts or forms. As a result, students develop the techniques and confidence to answer those standard questions (often by reproducing the solutions in the textbooks).

They learn to 'pattern-match' questions in exams to check which question they have seen in the textbook or another source which is a closest match and apply the same procedure.

Unfamiliar questions refer to those that deviate from the traditional textbook-based approach and introduce students to novel, relatable, real-life contexts.

3. Using authentic contexts and data in questions

Questions in exams should, as far as possible, contain authentic contexts and data from the real world, even in situations where the use of fictitious examples or data would otherwise suffice.

Ei ASSET: Leveraging the Power of

Scientifically Designed Questions

What makes
Ei ASSET questions
truly unique?

- Exposes students to questions with unfamiliar framing/context
- Assesses key concepts and core knowledge
- Uses authentic data in questions
- Analyses past student performance data while designing questions
- Uses technology in a pedagogically rich way
- Uses stimulus or case-based solutions

How is an **Ei ASSET Question made?**

**Robust Question
Making Process**

**Misconception
Research**

**= Superlative
Questions**

- **Uncover
Misconceptions**
- **Check
Application**

6 > 12 > 1 makes **1**

**Subject
Experts**

**Quality
Checks**

**Whole
Day**

**Ei ASSET
Question**



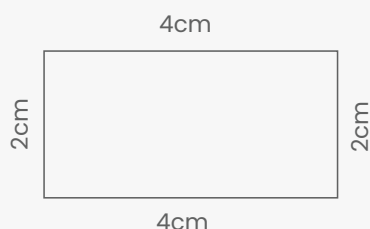
Ei ASSET Questions:

Let's take a Deeper Look

Question 1

Standard Question

What is the perimeter of this rectangle?



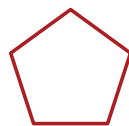
Answer:

vs

Ei ASSET version

Ei

Which of these shape(s) has/have a perimeter?



Shape 1



Shape 2



Shape 3

- A. only shape 1
- B. only shape 3
- C. only shapes 1 and 2
- D. only shapes 1 and 3

A

34.2%

B

8.9%

C

39.8%

D

16.4%

Inference:

The regular question tests if given a rectangle with its sides marked, can students calculate its perimeter. Whereas the Ei ASSET question on the same concept of perimeter checks if students identify the shapes that will have a perimeter. While the first question is perfectly fine, it tests just the procedural aspect of the concept and it is possible that students who do not understand what a perimeter is are also able to answer it correctly just because they have memorised the formula or are simply adding the side lengths. The Ei ASSET question on the other hand can be answered only if students have understood that any closed shape, irrespective of the type of side it has—straight or curved, will have a perimeter. As seen by data, only around 40% of the students could answer the Ei ASSET question correctly and they harbour misconceptions like 'only closed shapes with straight sides can have a perimeter' or 'any shape, closed or open, with straight sides can have a perimeter'.

Benefits

of Incorporating Ei ASSET in your School:

Diagnose Learning Gaps

What concepts are students struggling to grasp and how can the same concepts be explained better?

- Ask quality questions to diagnose understanding
- Get detailed analytics to understand gaps
- Actionable insights to help with interventions

Benchmarking

How your school compares with others and what needs to be improved? Get an in-depth view of:

- Individual student performance
- Overall school performance

Teacher Effectiveness

How can your teachers improve classroom instruction?

- Post Ei ASSET Workshop
- Ei ASSET A Question A Day
- Practice Questions
- Teacher Sheets

Identify Misconceptions

Good assessment requires quality questions that prompt deep thinking and application of learned concepts. Here are the key characteristics of effective questions:

- Tests core knowledge instead of peripheral facts.
- Poses questions in unfamiliar ways.
- Uses authentic contexts and data in questions.



Why ask a Traditional Question when you can ask an Ei ASSET question?

Some schools rely solely on their own tests and exams, dismissing the need for external assessments. However, both classroom tests and external tests serve distinct and complementary purposes. Classroom tests allow personalised evaluations but may lack objectivity, while external tests offer valuable insights to teachers, aiding them in adjusting their instructional methods. External tests also act as benchmarks, showcasing the school's standing within a broader context. Furthermore, these tests inspire teachers to think creatively and consider essential skills within the curriculum.

Our Work on Assessment Reforms with School Affiliation Boards of India

The National Education Policy (NEP) 2020 advocates a shift from an assessment system that primarily focuses on testing rote memorisation skills to one that emphasises regular and formative evaluation. Recent notifications from the Central Board of Secondary Education (CBSE) and Indian Certificate of Secondary Education (ICSE) boards indicate that competency-based assessments will gain prominence in board exams. (Please refer to the specific notice for more information.)

At Ei, we work closely with CBSE and ICSE along with other state boards for excellence in assessments and capacity building of the board.

This is the fundamental principle on which we have built Ei over the past 22 years. We firmly believe that rote learning should be replaced by "Learning with understanding." At the core of this approach lies a national assessment system that aims to assess the conceptual clarity of each topic for every student, facilitating their understanding of higher-order skills such as analysis, critical thinking, and conceptual clarity.

As part of the project we have co-created these question booklets for five subjects of Grade 10. These booklets contain competency-based items specifically designed to test conceptual understanding and their application in real world scenarios.

A test for every school, every class and every year.

Ei ASSET covers:

Grades 3 to 10

Subjects:

English, Maths,
Science and
Computational
Thinking

Grades 5 to 10

Subjects:

Social Studies

Grades 4 to 8

Subjects:

Hindi

Ei ASSET is available in:



Pen & Paper mode



Online mode
(Ei ASSET Dynamic)

Ei ASSET covers all major curriculum taught in India, South Africa, Middle East, Southeast Asia and USA.

Our Vision

Creating a world where children everywhere are learning with understanding.

Our Mission

Ei leverages the twin levers of cutting-edge educational research and a technology-based solutions approach to revolutionise how children engaged in the K-12 education space learn.

We reach a multitude of children across different strata of society, irrespective of the kind of education they are receiving or the curriculum they are following.

Our Solutions

Ei ASSET

Ei ASSET
Talent Search

Ei ASSET
Computational
Thinking

Ei CARES

Ei Mindspark

Ei Reading
Assessments





**Creating a world where
children everywhere are
learning with understanding.**



Locations

India

Ahmedabad

The First Building,
Corporate House A2, 1st Floor, Nyay
Marg, Vastrapur, Ahmedabad 380015

Bengaluru

The CUBE - Karle Town Center, 100 Ft, Nada
Prabhu Kempe Gowda Main Rd, next to Nagavara,
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