Department of Education
Region XII
Division of Sarangani

SMART-ED Initiative

Elevating Education and Future-Proofing the Sarangan Learners

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Pillars of the DepEd Sarangani SMART-ED Initiative

S: Student-centered Approach
M: Meaningful Collaboration
A: Active Professional Development
R: Real-time Assessment
T: Technology Integration
E: Engaging Curriculum
D: Data-driven Instruction

Vision Statement

Our vision is to create a **future-ready generation** of learners through **innovative, dynamic, and technology-enhanced education** in Sarangani.

Mission Statement

Our mission is to transform the **educational landscape** of Sarangani by empowering schools with **cutting-edge technology** and providing students with **access to innovative learning experiences** that equip them with the skills and knowledge to succeed in the 21st century.

Through collaborative efforts with educators, community leaders, and technology partners, we aim to establish **Sarangani as a leader in smart education**, fostering a **culture of innovation, creativity, and lifelong learning**.

Objectives

1. Implement technology infrastructure and systems that support digital learning and enhance the teaching and learning experience for students and educators.
2. Provide training and professional development opportunities for educators to effectively integrate technology into their teaching practices and effectively support student learning.
3. Develop and implement curricula that are inclusive, engaging, and aligned with 21st-century skills and competencies.

Objectives

- 4.Foster partnerships with local businesses and organizations to provide students with real-world learning experiences, mentorship opportunities, and access to cutting-edge technology and resources.
- 5.Establish effective communication and collaboration systems to support student and educator learning and ensure that all stakeholders are informed about and engaged in the smart school initiative.
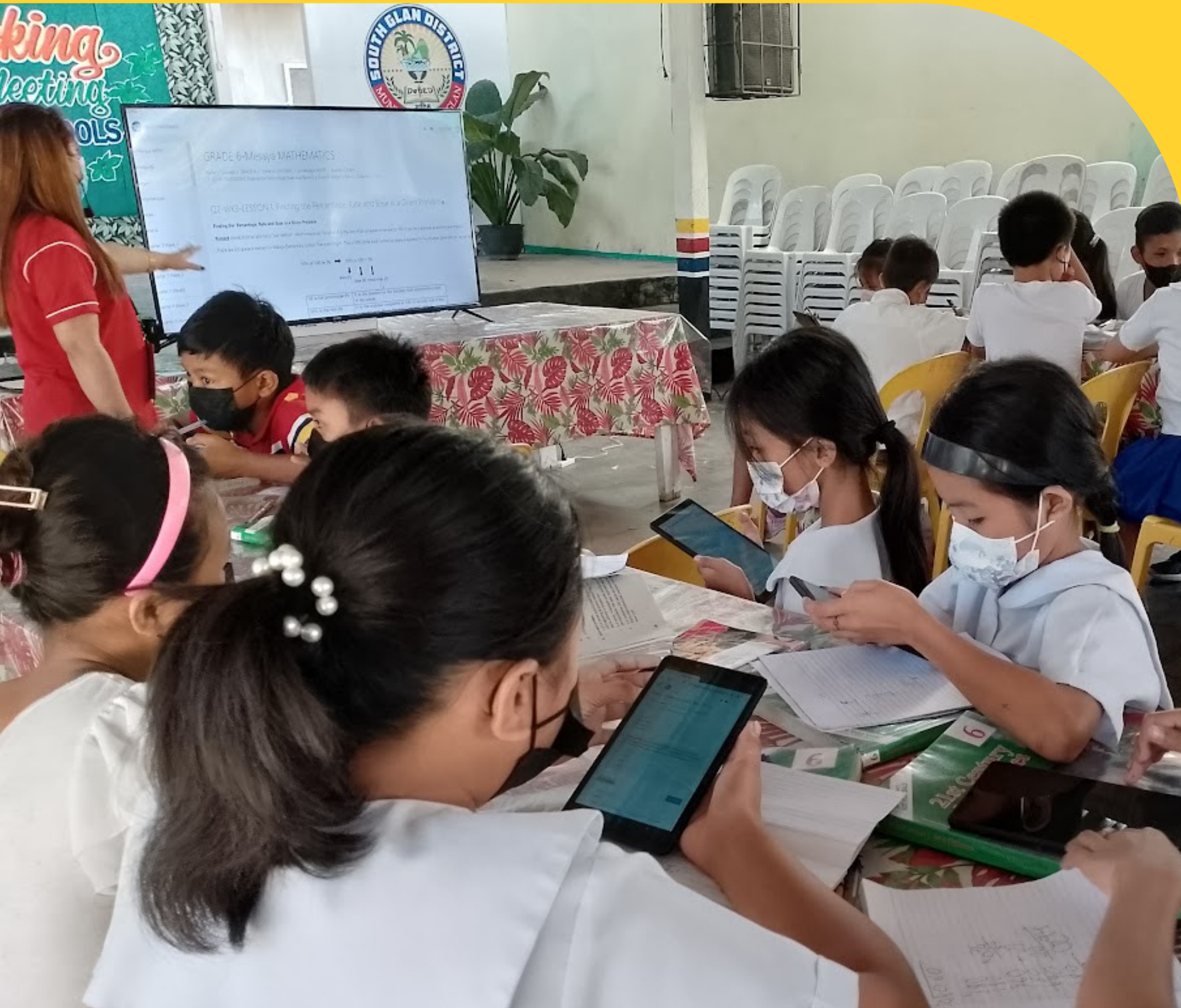
Objectives

- 6.Conduct regular evaluations to assess the impact of technology integration on student learning and make improvements to ensure that the smart school initiative is effective and efficient.
- 7.Foster a culture of innovation, creativity, and lifelong learning that inspires students to pursue their passions and equips them with the skills they need to succeed in the 21st century.

What is a Smart School?

- A smart school refers to an educational institution that utilizes technology to **enhance the learning experience** and **improve educational outcomes.**
- This can include the use of **digital devices, online learning platforms, and data analytics** to support **personalized instruction** and provide **real-time feedback** to students and teachers.
- The goal of a smart school is to create a more **engaging**, **efficient,** and **effective learning environment.**

Why Smart School?

"We will provide schools with electricity. In the next 5 years, we will work towards providing electricity, especially in our last-mile schools. We will provide e-classroom packages for teaching and learning. Each package will consist of 46 laptops, 2 charging carts, 2 wireless routers, and 1 smart TV. This will accelerate the integration of ICT in teaching and learning and institutionalize blended learning. **We will optimize the use of technology, both online and offline, to ensure that learners have opportunities to learn even in the event of a pandemic or other emergencies**. We will digitize our essential processes, including our national assessments."

Why Smart School?

Improved student learning: Technology integration in smart schools can enhance students' ability to learn, retain information, and apply knowledge to real-world situations.

Better teacher practices: Providing teachers with the tools and training needed to integrate technology into their teaching practices can improve their ability to meet the diverse needs of students and deliver effective instruction.

Increased student engagement: Technology-rich learning environments can foster student engagement by allowing students to take an active role in their own learning, leading to increased motivation and achievement.

More effective assessment: Real-time assessment in smart schools can inform instruction and support data-driven decision making, leading to better student outcomes.

Why Smart School?

Improved collaboration: Technology can facilitate collaboration among students, teachers, and other stakeholders, leading to a more collaborative and supportive learning environment.

Future-ready workforce: Investing in smart schools can prepare students for the future by equipping them with the technology skills needed to succeed in a rapidly changing world.

Cost savings: Investing in smart schools can lead to cost savings in the long term, as technology-rich learning environments are often more efficient and cost-effective than traditional learning environments.

Is your school ready to become a Smart School?

✓ **TECHNOLOGY INFRASTRUCTURE**
Does the school have the necessary hardware, software, and connectivity to support technology-enhanced teaching and learning?

✓ **TEACHER TRAINING**
Have teachers received the training and professional development needed to effectively integrate technology into their teaching and learning practices? (e.g. Guro 21)

✓ **CURRICULUM ALIGNMENT**
Is the school's curriculum aligned with the principles of a smart school, including student-centered learning and the integration of technology?

✓ **STUDENT ENGAGEMENT**
Are students actively engaged in their own learning and taking an active role in their education?

Steps in the Implementation of SMART-ED Initiative

The activities that should be done leading to the implementation of the SMART-ED initiative include:

STEP 01 Pre-implementation assessment

STEP 02 Infrastructure development

STEP 03 Curriculum Development

STEP 04 Teacher Training

STEP 05 Parent and Learner Orientations

- **Pre-implementation assessment** - to assess the readiness of the school and to identify areas for improvement
- **Infrastructure development -** to ensure that the necessary equipment and facilities are in place to support the use of technology in the classroom
- **Teacher training** - to familiarize teachers with the use of technology in the classroom and to improve their teaching skills
- **Curriculum development** - to integrate technology into the existing curriculum and to align it with the goals of the SMART-ED initiative
- **Parent and Learner Orientations** - to prepare the learners for the SMART-ED initiative and to orient the parents on how to assist their learners

Steps in the Implementation of SMART-ED Initiative

STEP 06 Stakeholder engagement

STEP 07 Monitoring & Evaluation

STEP 08 Sustainability planning

- **Stakeholder engagement** - to involve all relevant stakeholders in the implementation process and to ensure that everyone understands their role and responsibilities
- **Monitoring and Evaluation** - to track progress and identify areas for improvement in the implementation process
- **Sustainability planning** - to ensure that the gains from the SMART-ED initiative are sustained in the long term and to ensure that the necessary resources are in place to support its continuation.

The SMART-ED Classroom

A smart classroom is a technologically advanced learning environment that is designed to facilitate student-centered, interactive, and engaging learning experiences. Key components of a smart classroom typically include:

1. Interactive displays
2. Computers or tablet devices
3. Network
4. Audio-visual Equipment
5. Learning mgt systems
6. Classroom mgt software
7. Mobile or flexible seating arrangements

The SMART-ED Classroom

1. **Interactive displays** or whiteboards that allow teachers and students to interact with digital content.
2. **Computers or tablet devices** for students and teachers to access digital resources.
3. **High-speed internet connectivity or Local Network** to support online learning and communication.
4. **Audio and visual equipment**, such as speakers and projectors, to enhance presentations and multimedia content.
5. **Classroom management software** that allows teachers to monitor and control student devices in real-time.
6. **Learning management systems** to support online coursework and assessments.
7. **Mobile or flexible seating arrangements** to facilitate student collaboration and small group work.

Initial Commitment of SDO Sarangani

The Schools Division of Sarangani shall provide the SMART-ED pilot implementing schools with the following:

1. Smart TV
2. Android Tablets (1:1 ratio)
3. Speakers
4. Lapel Microphone (Wireless)
5. Web Cam
6. Science Laboratory Apparatuses
7. Robotics Package
8. Training of Teachers on 21st Century Learning (Content, Pedagogies, and Assessment) and Adapting to Gen Z Learners
9. Orientation of Parents on the SMART-ED Initiative and assisting Gen Z learners

School / Stakeholder Counterpart

The following shall be provided by the school and their partners:

1. Classroom that is compliant to DepEd Standard, i.e. size, paint color
2. Tables and chairs that allow for collaboration
3. Accessible and safe electrical outlets
4. Dedicated Internet Connection
5. Security Guard on duty 24/7
6. Security grills and padlock for the SMART-ED Classroom
7. Locker for bags

Initial Actions to be Taken by School Heads of the Proposed Pilot Implementers

Schools of the identified schools are instructed to:

1. Integrate the implementation of the SMART-ED Initiative in their respective School Improvement Plans and Annual Implementation Plan
2. Develop Instructional Supervision Plan with accommodation for the features of SMART-Initiative

Possible Classroom Layouts

a. Collaborative Setup

Possible Classroom Layouts

a. Collaborative Setup

Possible Classroom Layouts

Dyad with 2 tables

Dyad with 1 table

Triad with 2 tables

Triad with 1 table

Group of 4 with 4 tables

Group of 6 with 4 tables

b. Flexible Collaborative Setups

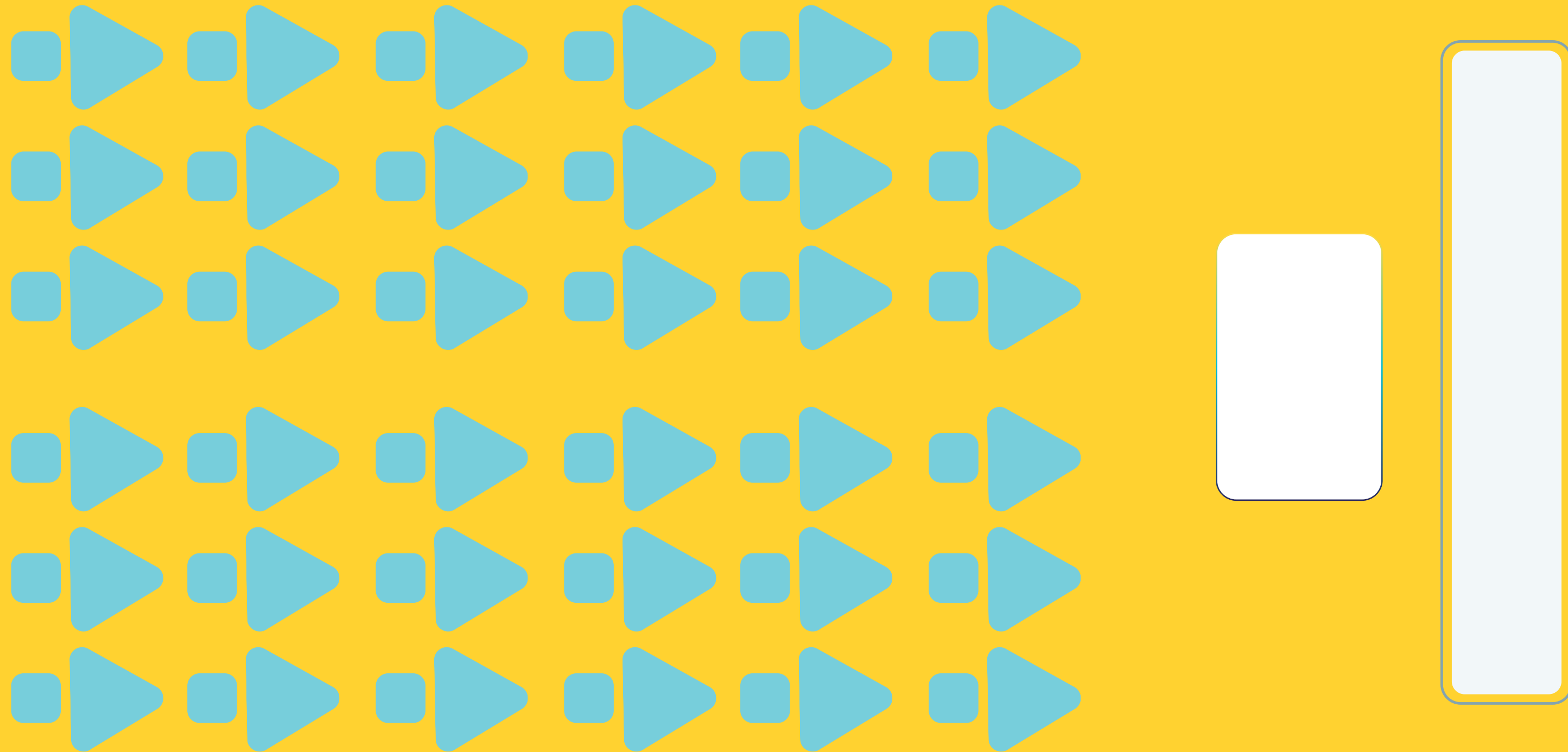# Possible Classroom Layouts

b. Individual work setup

Possible Classroom Layouts

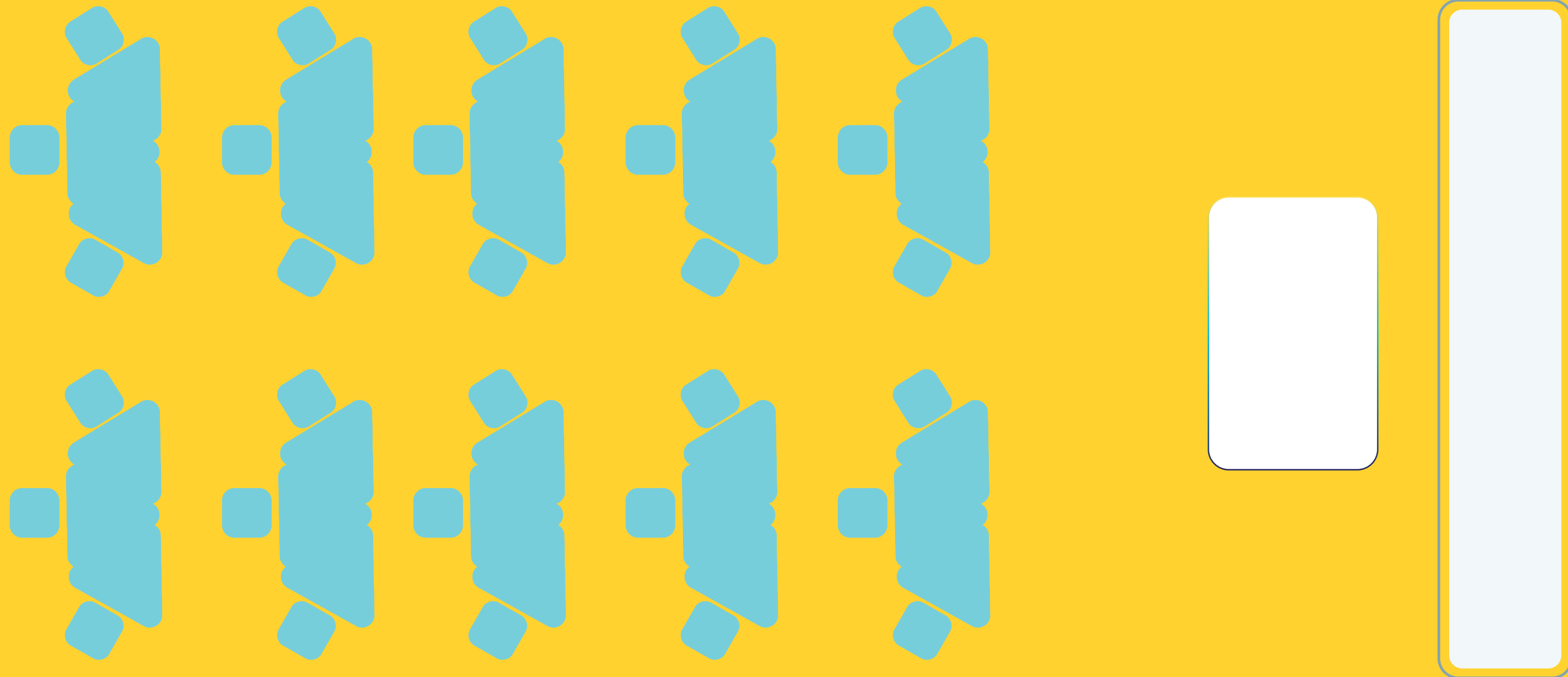c. Lecture/Presentation setup

Possible Classroom Layouts

d. Individual work + Lecture setup

Possible Classroom Layouts

b. Small groups + Lecture setup

Possible Classroom Layouts

c. Conference setup

Minimalist Classroom Decorations

- Heavily decorated classrooms can bombard students with too much visual information, interfering with their memory and ability to focus, a new study finds.

- Classroom walls should feel warm and lively but not overcrowded—keep 20 to 50 percent of the wall space clear, and fill the rest with student work, inspiring pictures, and learning aids.

https://www.edutopia.org/article/dos-and-donts-classroom-decorations/

Next Steps

- Launching: **May 8, 2023**
- Training: **TBA**