

The Importance of Literacy Instruction

June 25, 2024

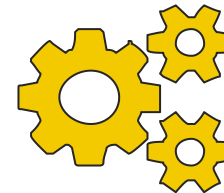
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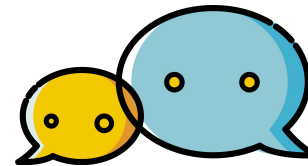
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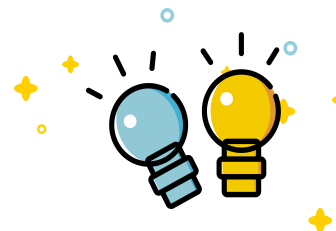
The importance of literacy instruction in all grades



Example: Literacy in Design technologies, grades 11-12



Signs students with literacy needs exhibit



Action plan for literacy skills enhancement



Why is literacy instruction important
in all grade levels?

Importance of literacy instruction in **Elementary** grades

Foundational Skill Development

- Literacy skills, such as phonics, fluency, and comprehension, are foundational for all other academic learning.
- Developing these skills early on sets the stage for students' long-term academic success across subjects.

Future Academic Achievement

- Strong literacy skills in the early grades are predictive of higher achievement in subsequent grades.
- Students who struggle with reading and writing in the elementary years often continue to face challenges in secondary and post-secondary education.

Cognitive and Language Development

- Literacy instruction supports the overall cognitive and language development of young children.
- The skills acquired through literacy learning, such as information processing, critical thinking, and communication, are essential for broader intellectual growth.



Lifelong Learning and Participation

- Proficient literacy skills empower students to become independent, lifelong learners who can actively engage with a wide range of texts and information sources.
- Strong literacy abilities also enable students to participate more fully in social, civic, and economic spheres throughout their lives.

Mental Health and Well-Being

- Successful literacy development can positively impact students' self-esteem, confidence, and overall sense of academic competence.
- Struggling with reading and writing can contribute to feelings of frustration, anxiety, and disengagement, which can have broader implications for mental health and well-being.

Equity and Access

- Effective literacy instruction is crucial for providing all students, regardless of their background, with equal opportunities for academic and social advancement.
- Addressing literacy gaps early on can help mitigate the impact of socioeconomic, cultural, and linguistic disparities on educational outcomes.

Importance of literacy instruction in middle-school grades

Adolescent Literacy Development

- Middle school students continue to experience rapid cognitive, social, and emotional changes, which impacts their literacy development.
- Targeted literacy instruction helps students navigate the increasing complexity of academic content and texts they encounter in the middle grades.

Reading Comprehension and Critical Thinking

- Middle school students are expected to read and comprehend more sophisticated and specialized texts across the curriculum.
- Continued focus on comprehension strategies, close reading, and critical analysis of texts prepares students for the intellectual demands of secondary and post-secondary education.

Subject-specific Literacy:

- As students transition to different subject areas, they need to develop discipline-specific literacy skills, such as reading and writing in the sciences, social studies, and mathematics.
- Explicit instruction in disciplinary literacy helps students access and engage with the unique language and text structures of each academic discipline.



Vocabulary development

- Middle school students encounter a significant increase in academic and domain-specific vocabulary, which is essential for understanding complex subject matter.
- Explicit instruction in vocabulary acquisition, including word analysis and concept development, supports students' overall academic language proficiency.

Motivation and engagement

- As students navigate the social and emotional changes of adolescence, maintaining their motivation and engagement in literacy-related activities becomes crucial.
- Incorporating relevant, engaging, and culturally responsive texts and literacy activities can help sustain students' interest and investment in learning.

Preparation for High School and Beyond

- Strong literacy skills in middle school lay the foundation for success in high school, where the academic demands continue to increase.
- Developing proficient literacy abilities in the middle grades equips students with the necessary skills to engage with complex texts, write effectively, and thrive in a variety of post-secondary educational and career pathways.

Importance of literacy instruction in high-school grades

Advanced Literacy Skills

- High school students are expected to engage with increasingly complex, multi-layered, and discipline-specific texts across the curriculum.
- Developing advanced literacy skills, such as critical analysis, synthesis, and interpretation, is crucial for academic success in high school and beyond.

Preparation for College and Careers:

- Proficient literacy abilities, including reading comprehension, academic writing, and verbal communication, are vital for students' readiness and transition to postsecondary education or the workforce.
- High school literacy instruction prepares students for the rigorous literacy demands they will face in college, vocational training, or the workplace.

Lifelong Learning and Adaptability

- Literacy skills are essential for students to become independent, self-directed learners who can adapt to the ever-changing information landscape.
- Continued literacy instruction in high school equips students with the agility to acquire new knowledge, critically evaluate sources, and effectively communicate their ideas throughout their lives.



Interdisciplinary Connections

- High school literacy instruction should be integrated across all subject areas, allowing students to apply their reading, writing, and communication skills in various academic disciplines.
- This interdisciplinary approach helps students see the relevance and practical application of literacy skills in diverse contexts.

Adolescent Development and Engagement

- High school is a crucial time for adolescent development, and literacy instruction can be tailored to address the unique social, emotional, and cognitive needs of this age group.
- Engaging high school students through relevant, culturally responsive, and technology-enhanced literacy activities can foster their motivation, self-efficacy, and overall academic investment.

Equity and Access:

- Providing high-quality literacy instruction in high school is crucial for ensuring that all students, regardless of their background or prior experiences, have the opportunity to achieve academic success and access postsecondary opportunities.
- Addressing literacy gaps at the high school level can help mitigate the impact of socioeconomic, cultural, and linguistic disparities on educational and career outcomes.

Examples of literacy activities in grade 11

In Design technologies

Activities to enhance oral presentation skills (spoken language, vocabulary, pronunciation)

While assessing students' comprehension of current topic, understanding if the lesson/unit objectives are met - through such activities I can also provide an opportunity for them to practice public speaking, expressing their ideas via group presentation

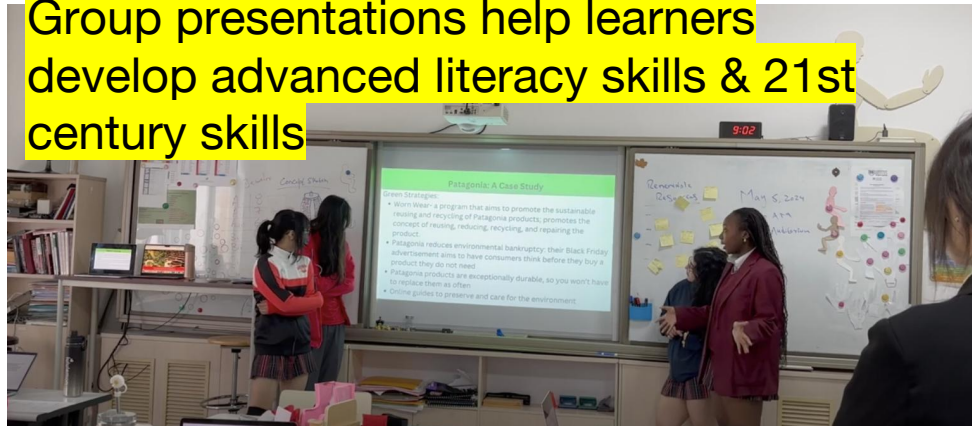
Brainstorm with your group:

Tripp Trapp Chair: Innovated example of a chair. What else can be innovated in a similar fashion? What products that we constantly replace throughout our lives can be kept?



Would that be an architectural or modular innovation in your case?

Group presentations help learners develop advanced literacy skills & 21st century skills



Research individually

Google glass: What were the challenges that prevented this invention from becoming the innovation?



Examples of literacy activities in grade 11

In Design technologies

Activities to enhance oral presentation skills (spoken language, vocabulary, pronunciation)

While assessing students' comprehension of current topic, understanding if the lesson/unit objectives are met - through such activities I can also provide an opportunity for them to practice public speaking, expressing their ideas via group presentation, improve critical thinking and collaboration skills

Group 2

- Loucas
- Meien Li
- Qiu Yu Wang
- Shin Alisha
- Quinn
- Xu Tianxiong
- Task: Based on the case study of Panton chair:
Discuss the Practical function vs Psychological function and how they might relate to the Panton Chair.



Group presentation from which I can collect data on learners' literacy and adjust lessons if needed



Examples of literacy activities in grade 11

In Design technologies

Formative activities to enhance advanced writing skills (grammar, vocabulary, syntax)

While assessing students' comprehension of current topic, understanding if the lesson/unit objectives are met - through such activities I can also provide an opportunity for them to practice writing when expressing their ideas and answering higher order questions

5.1 Invention

5.2 Innovation

5.3 Strategies for Innovation

5.4 Stakeholders in invention and innovation

5.1 Invention

Essential idea:

Essential idea – write the essential idea behind Innovation here (5.1) here.

Nature of design - write the clarification of 'nature of design here' (5.1) here.

Glossary and key terms: record here and also add to your glossary booklet:

invention, innovation, 'light bulb moment', Intellectual property, viable, patent, shelved technology, patent trolls

1. Outline the drivers behind the invention.
2. Why is there a debate about whether Thomas Edison was a 'lone inventor'.
3. Research the development of the 'Dyson' vacuum – outline the story behind the development of the Dyson vacuum – was James Dyson a lone inventor? Did he have a light bulb moment? Was it an example of innovation or was it just a development of an existing design/product? What steps had to be taken to get the Dyson vacuum to market?
4. Explain the benefits of intellectual property rights.
5. Explain in detail what a 'patent' is and how it works.
6. What is the disadvantage of being first to market?
7. Find an example of a 'shelved technology' or innovative product that did not go to market.

International Mindedness

What role do intellectual property and patents play in stifling inventions? How does this affect developing markets? Is this fair? Apple recently won a lawsuit over Samsung who were deemed to have violated an Apple patent (or patent owned by

Examples of literacy activities in grade 12 in Design Technologies

Summative report example by a 12 grade student

Reports are the way to assess their PBL task that assumes creativity, design thinking, critical thinking, etc. I can also assess the usage of vocabulary and grammar knowledge.

Target Audience:

The target audience for this product is anyone who uses a chalkboard stand outdoors, such as teachers, event planners, and restaurant owners. The product should cater to their needs by providing easy protection to the chalkboard and be easy to use.

Target Market:

Demographic: age, gender, family education

Psychographic: Lifestyle, attitudes

Behavioral: Occasion, Usage

Human factors:

Anthropometrics: Length, Width, Height of the chalkboard, knee floor height, hand width

Ergonomics: Shape, form, color and textures, ease of use, comfort in use

Observations



Rain severely damages the board

High humidity and moisture causes the wood to swell and deteriorate

Owners might forget to put the boards back inside



Exposure to direct sunlight causes fading of the surface

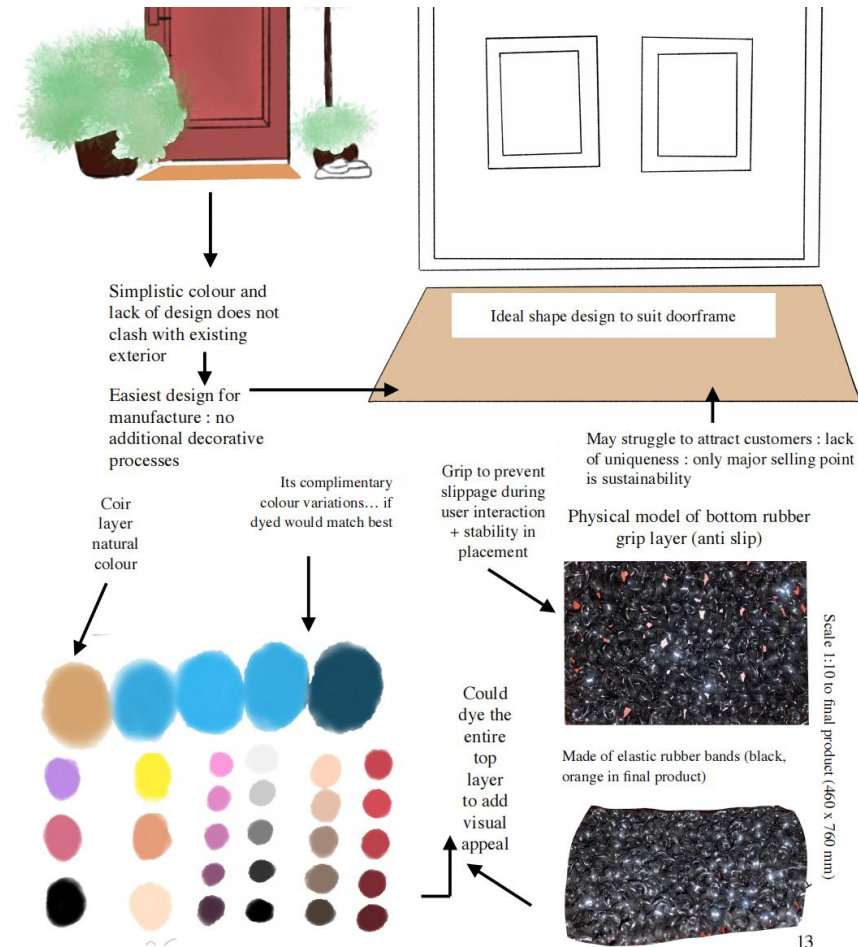
Extreme temperatures impacts the product stability and durability

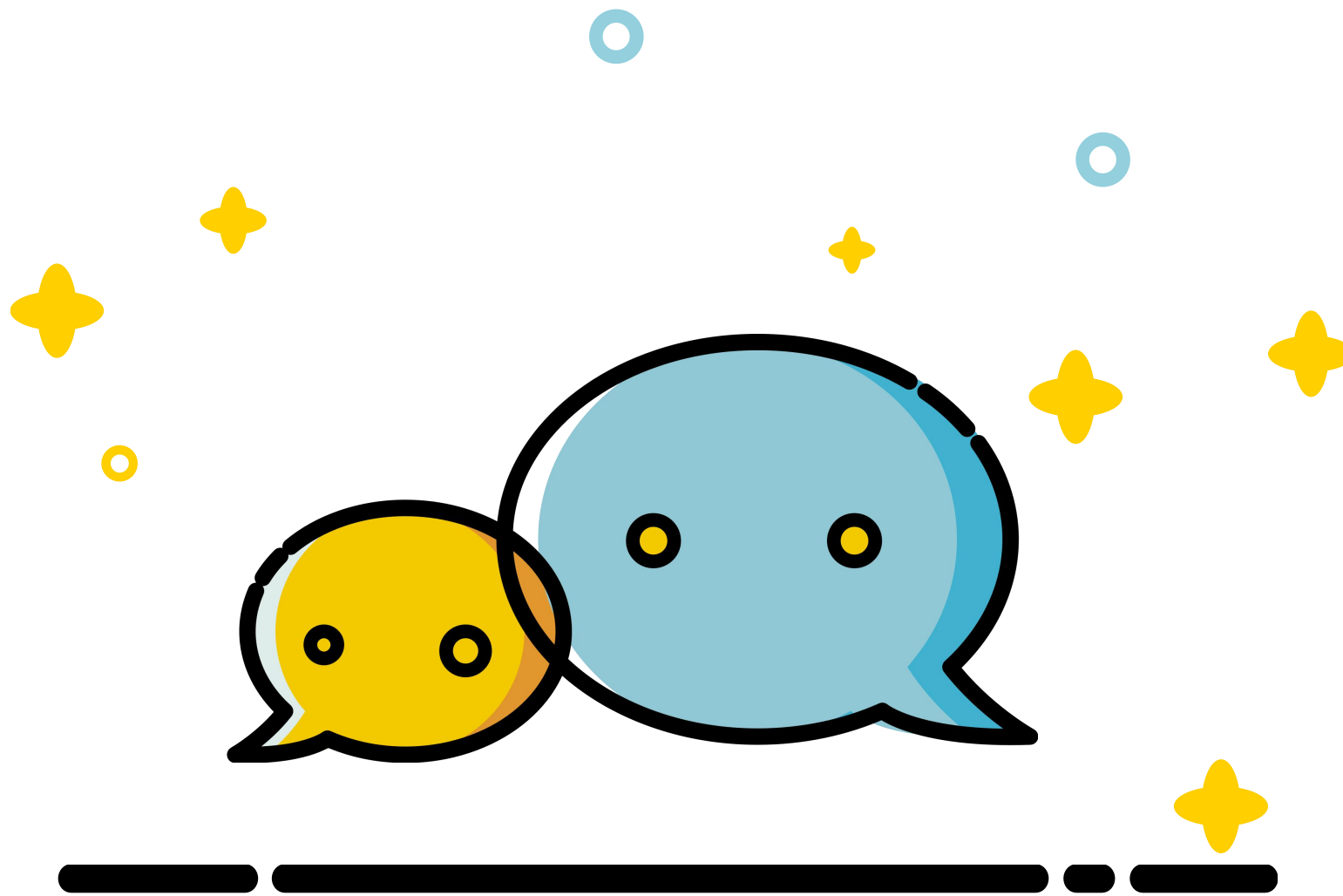
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Examples of literacy activities in grade 12 in Design Technologies

Summative report example by a 12 grade student

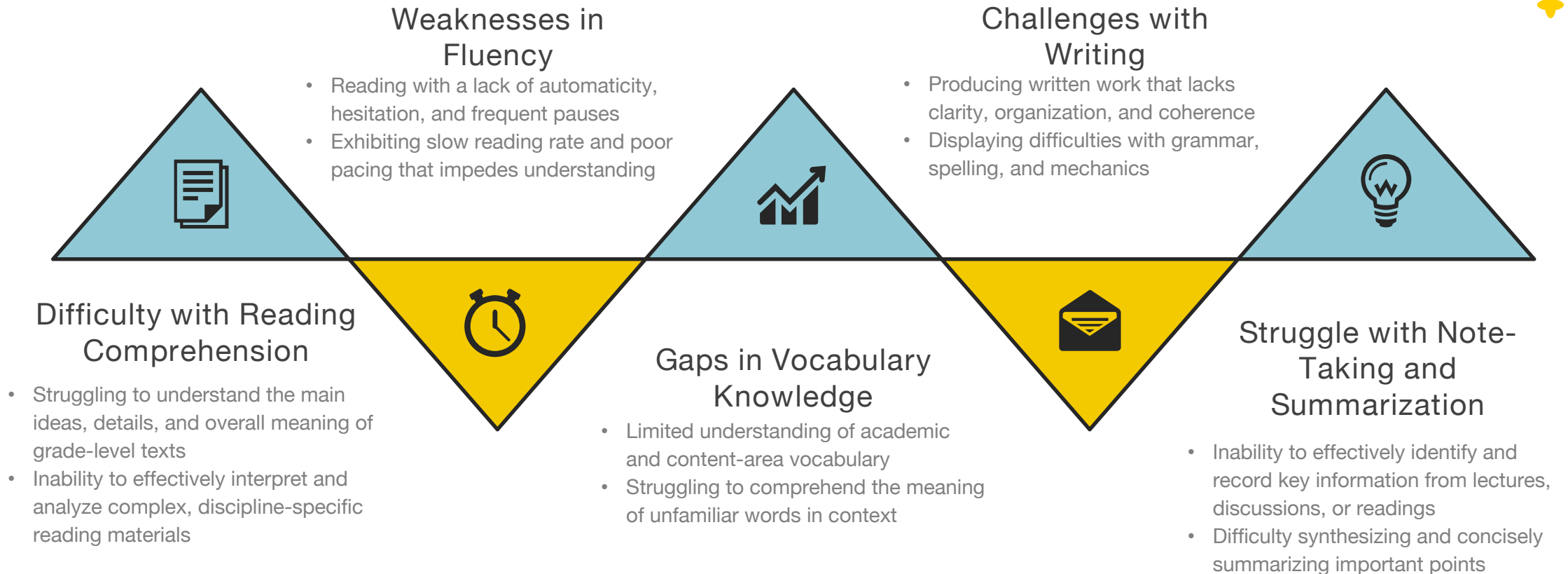
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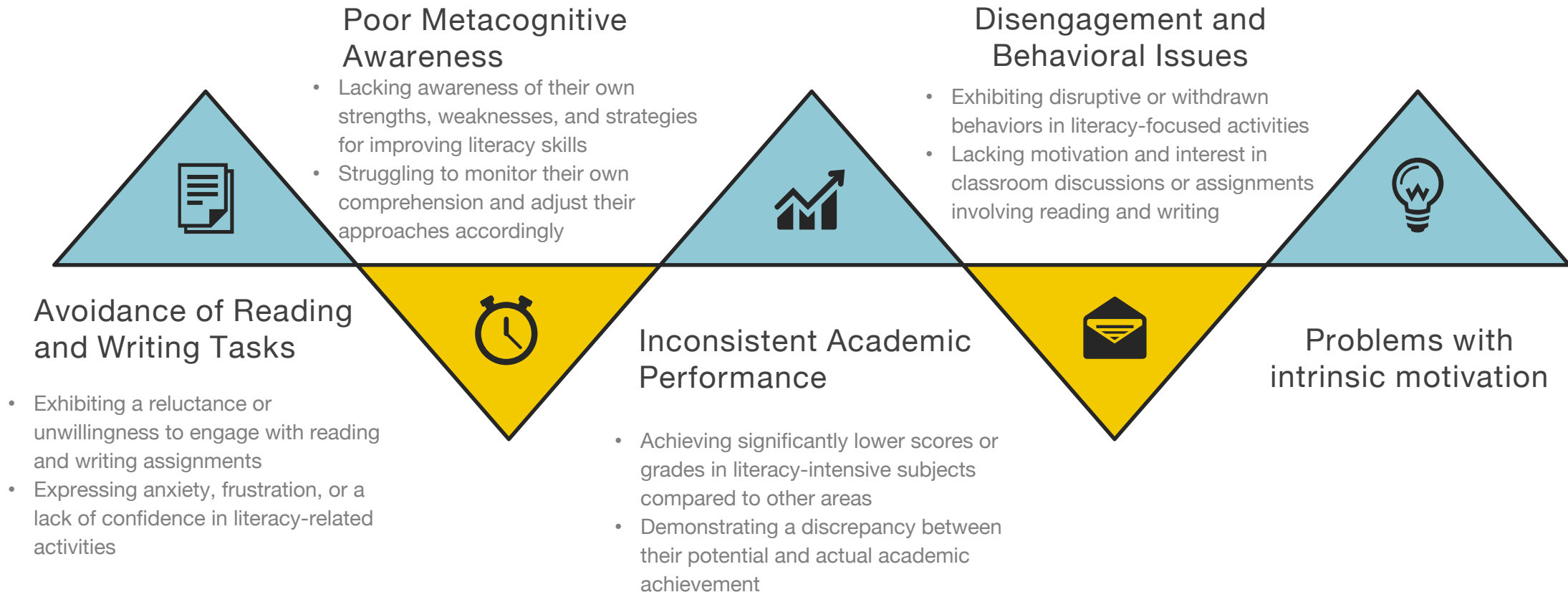


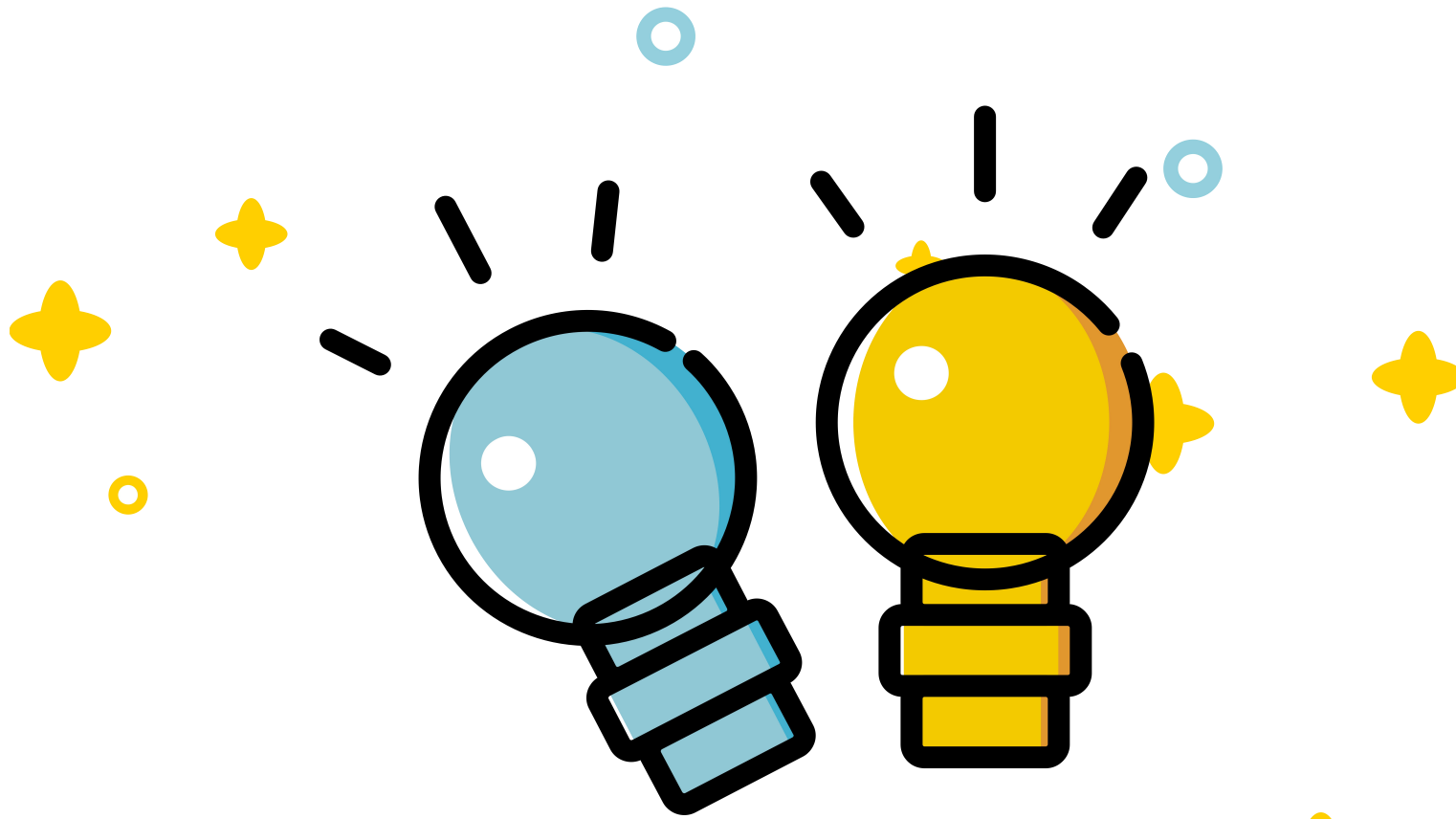
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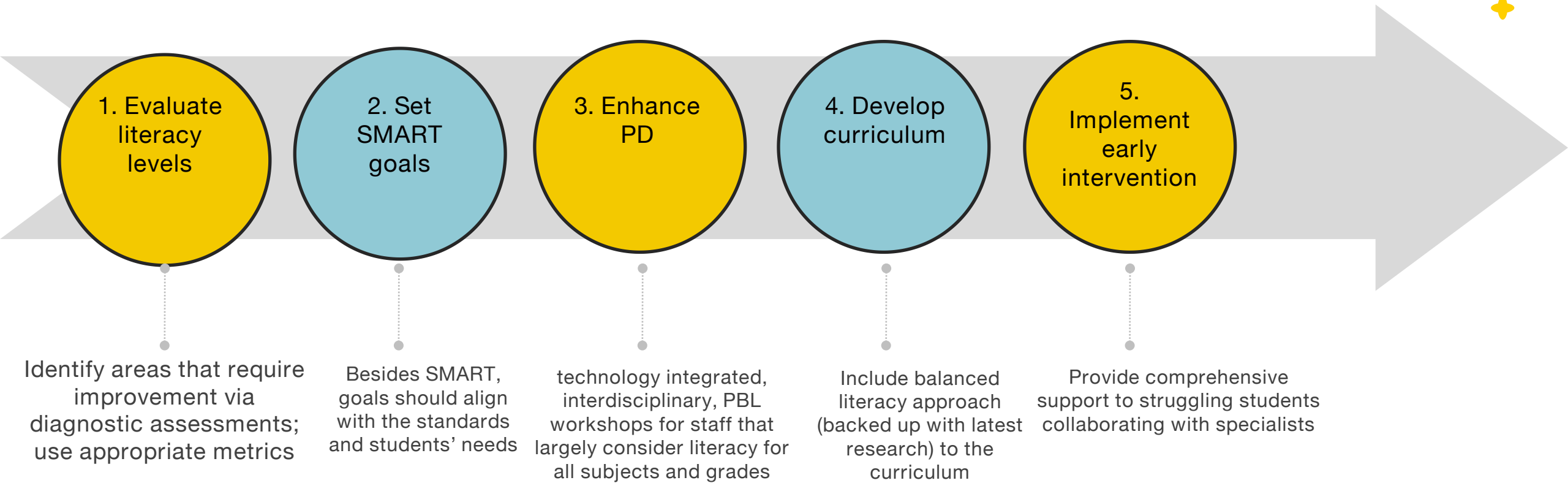
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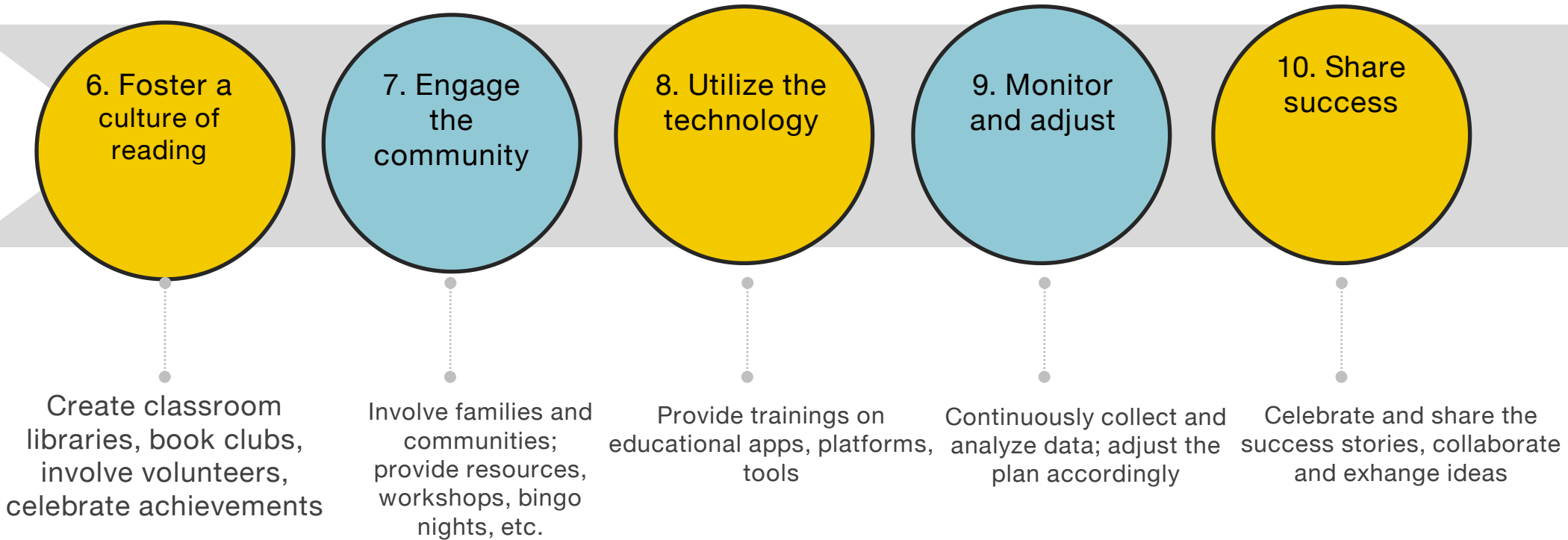


Action plan to improve
school's students'
literacy skills

Action plan to improve school's students' literacy skills



Action plan to improve school's students' literacy skills





Literacy Strategies for Middle and High School Learners



JAIME TRUE DALEY, ED.D.

Senior Associate Director of Literacy
University of Delaware

PRINCESS SOLOMON, ED.D.

Instructional Services
Riverside County Office of Education

<https://www.youtube.com/watch?v=9a-1UShIEvo>

Further strategies for middle-high school literacy improvement are explained in this video

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