



Designing Future Ready Schools

January 10, 2024



Agenda

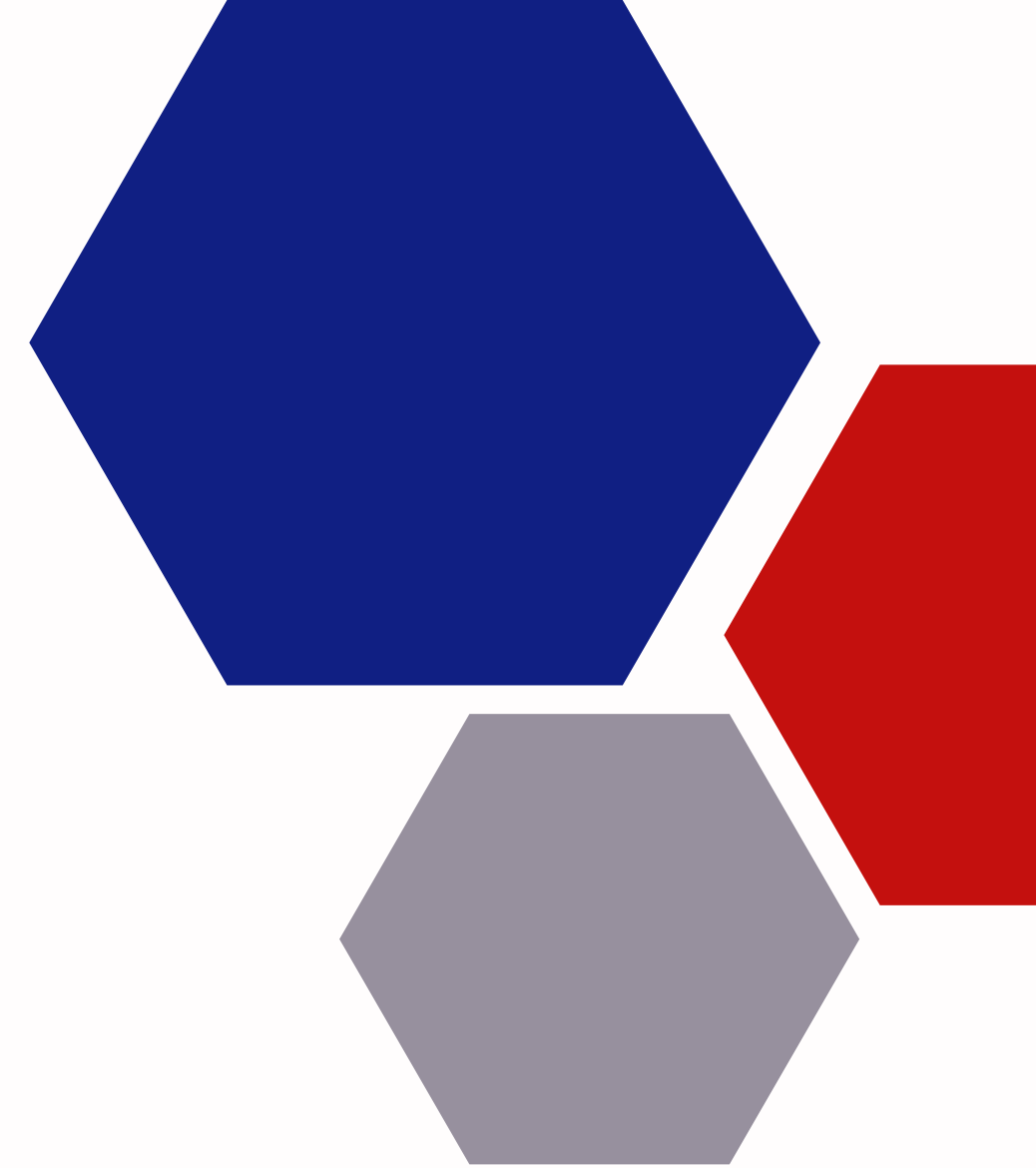
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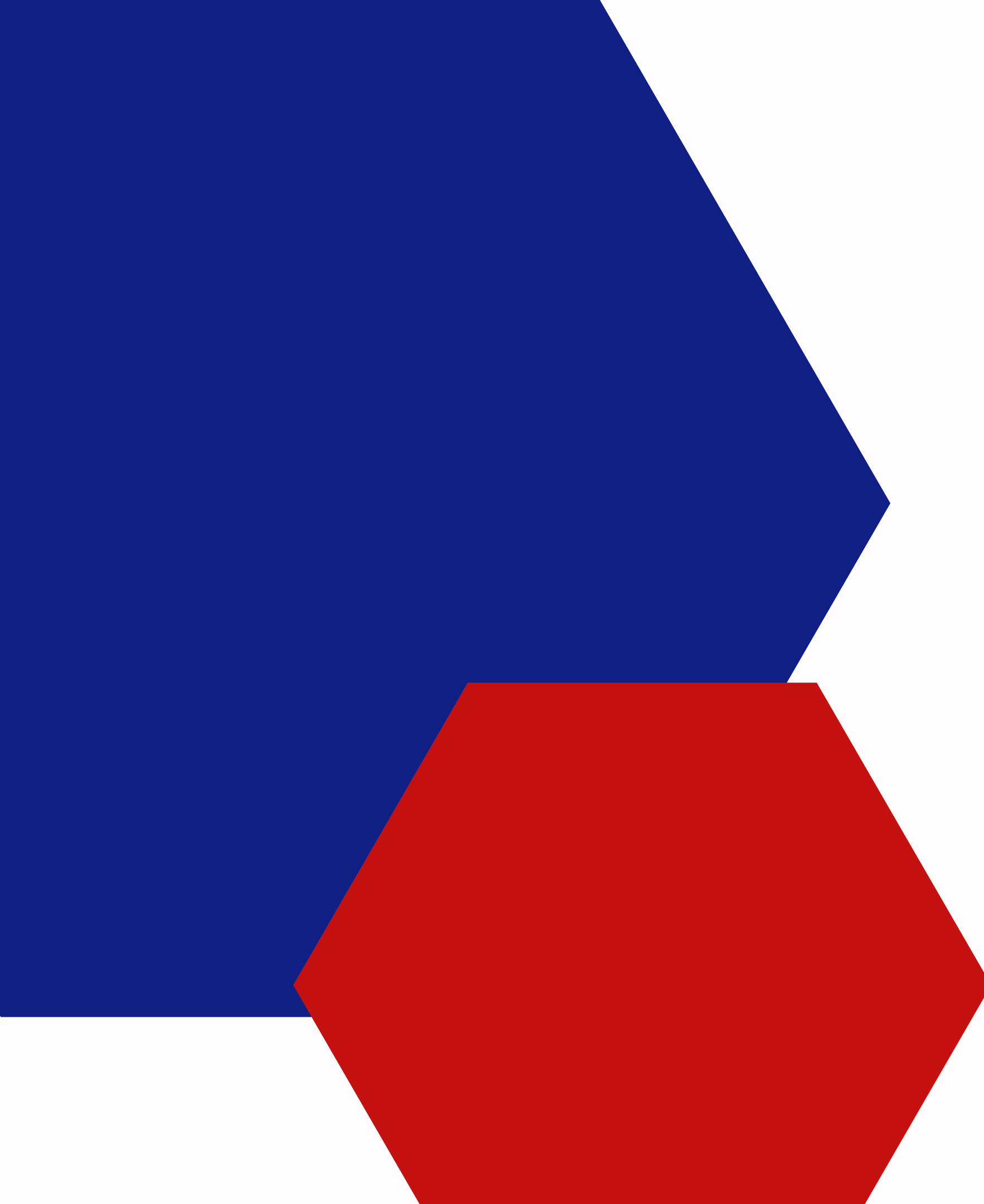
Introduction

How are we
preparing
learners for the
future?

Design Thinking
Challenge:
Future Ready
Schools

The Why?





What is a future
ready school?

Future Ready





A rendering of a flying electric taxi, which Hyundai plans to build through its air mobility division.

Hyundai plans flying-taxi plant

U.S. facility to build air vehicles for commuters

Bloomberg News

Hyundai Motor Group, the world's third-biggest automaker by sales, plans to build a facility in the United States where its air mobility division Supernal will make flying electric taxis intended to be used by commuters.

A prototype of the electric vertical takeoff and landing craft will be shown at CES in Las Vegas in January, Supernal chief executive Shin Jaiwon said.

The eVTOL taxi will be capable of flying at 120 mph and have capacity for one pilot and four passengers. December 2024 is the target for a test flight, with ambitions to start commercial service four years later, Shin said in an interview this week with Bloomberg News in Singapore.

"Considering all the battery technology and all the infrastructure and regulation to

come along, it's going to take some time," he said.

Batteries are the biggest technical challenge for electric air mobility, accounting for up to 40% of an eVTOL craft's weight. "That's really the killer," Shin said.

"From the operation side, we don't have air traffic management systems to govern these vehicles," he said. "Up until this point, even the foreseeable future, we don't have man-made objects flying routinely below 500 meters."

Washington, D.C.-based Supernal will submit an application to the U.S. Federal Aviation Administration in the coming months to get the eVTOL certified. Given how young the industry is, companies and regulators need to collaborate to figure out the best paths forward, Shin said.

"There's nothing out there — no infrastructure, no policy, no regulation," he said. "Since it's so brand new, the FAA doesn't have an established certification method."

Hyundai already has a factory producing cars in Alabama, while affiliate Kia Corp. has a plant in Georgia. Shin

didn't provide investment figures for the planned Supernal plant, or its size, potential location or other details.

Supernal joins an increasingly crowded field of companies trying to get eVTOL vehicles certified. EHang Holdings Ltd. is a step ahead after receiving a certificate to begin trial aerial operations in China, while California-based Joby Aviation Inc., with backers including Delta Air Lines Inc. and Toyota Motor Corp., also has approval from the FAA to test its flying taxis.

Racing to catch up, Supernal opened a new engineering headquarters in Irvine, California, in July and a new R&D facility in Fremont two months later. Its workforce has doubled from last year to nearly 600, with many coming from Boeing Co., Lockheed Martin Corp. and Tesla Inc., according to Shin.

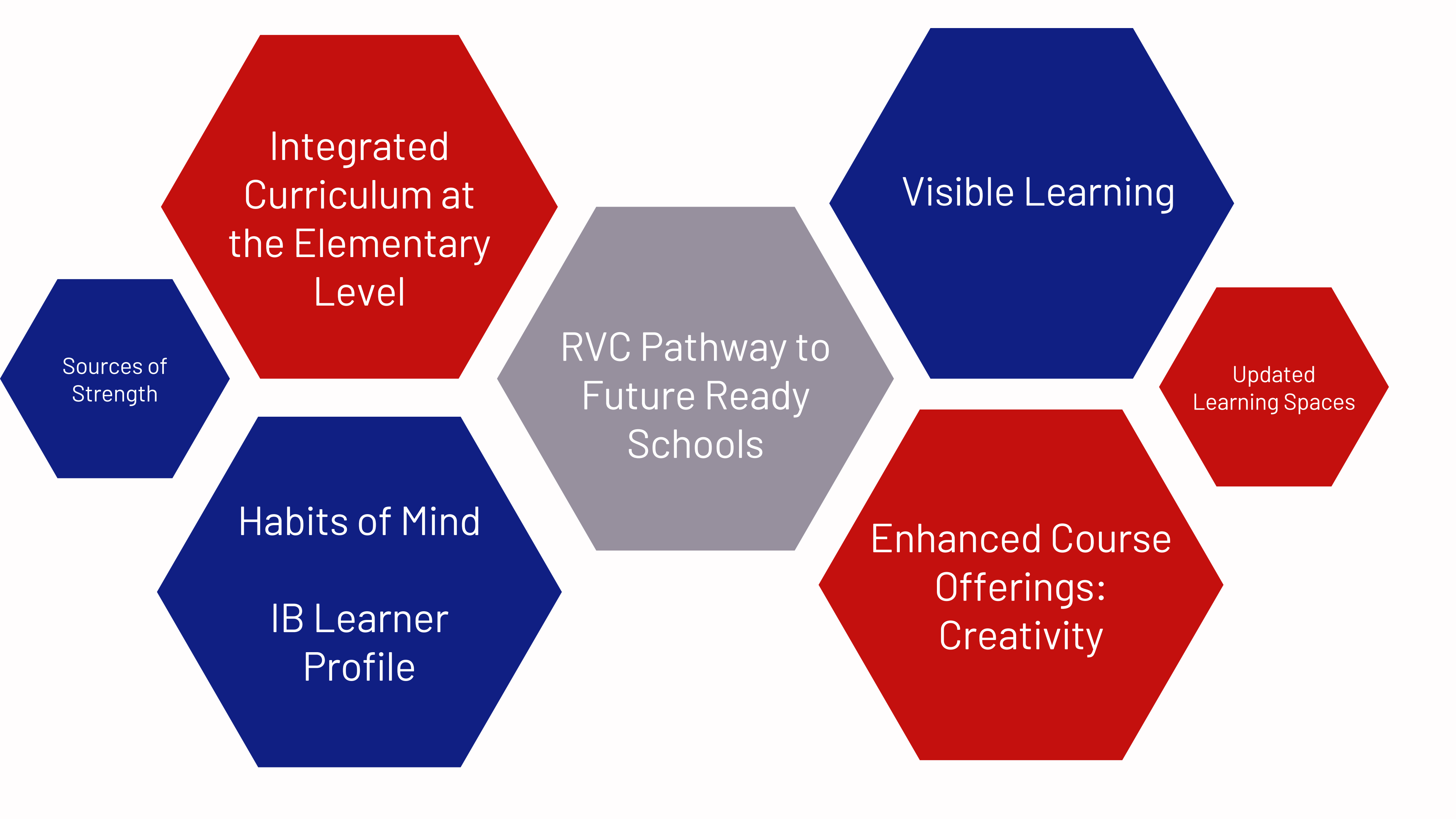
"We'll have to hire more because we're going to start the flight testing next year," he said.

In the two years since Supernal was founded, Hyundai, Kia and Hyundai Mobis Co. have invested about \$920 million into the company, filings show.

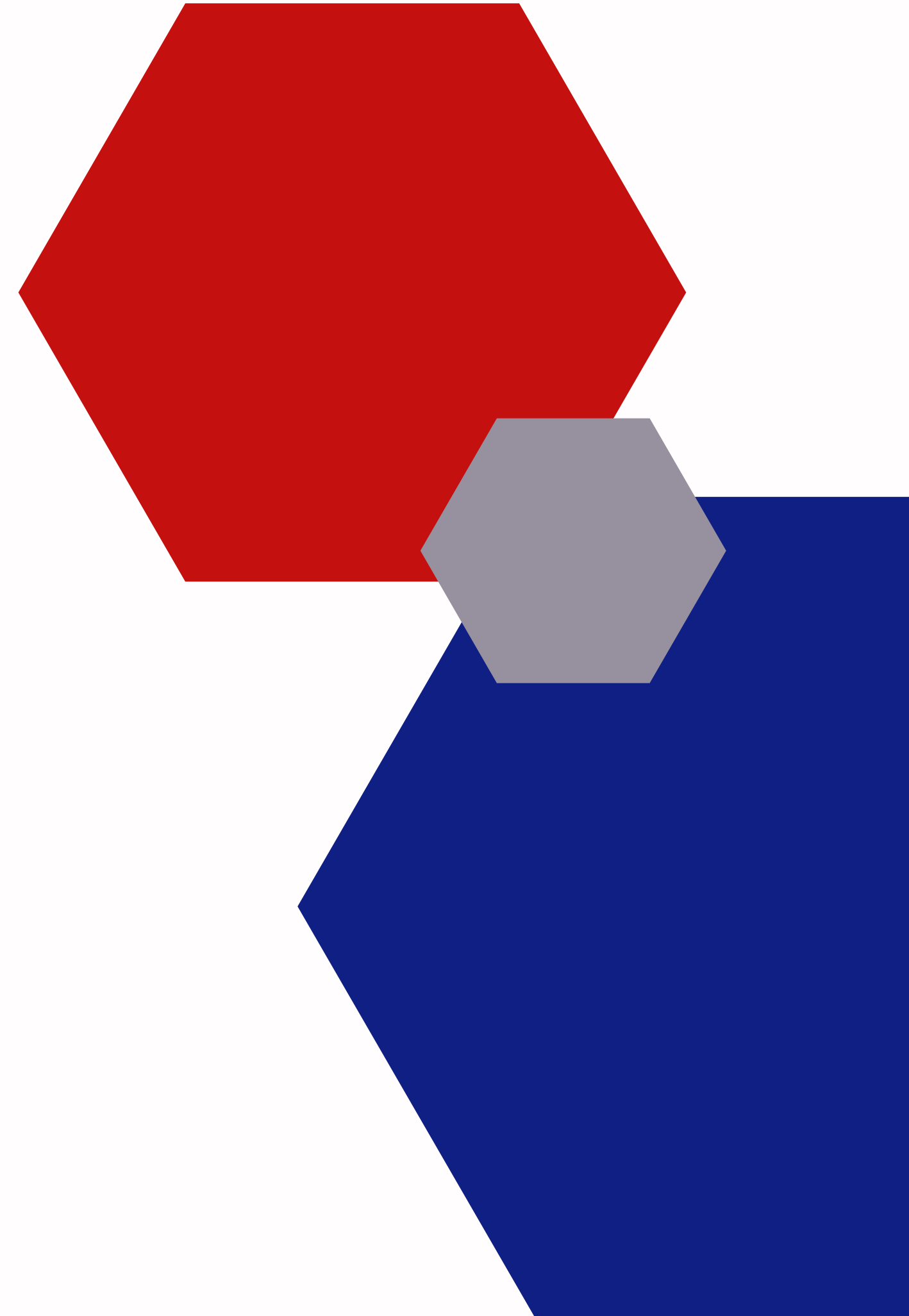
Future Ready?

How are we preparing our learners for this?

What do learners need to know and be able to do?



What are the essential skills, knowledge, characteristics, and dispositions that learners need to possess in order to be future ready?



Skills and Dispositions for Future Ready Individuals

 <p>Thinking About Your Thinking (Metacognition) <i>Know your Knowing!</i> Being aware of your own thoughts, strategies, feelings and actions and their effects on others.</p>	 <p>Persisting <i>Stick to it!</i> Persevering with a task through to completion; remaining focused; searching for ways to reach your goal when stuck. Not giving up.</p>	 <p>Managing Impulsivity <i>Take your time!</i> Thinking before acting; remaining calm, thoughtful and deliberative.</p>	 <p>Striving for Accuracy <i>Check it again!</i> Doing your best. Setting high standards. Fact checking and finding ways to improve.</p>
 <p>Listening with Understanding and Empathy <i>Understand others!</i> Devoting mental energy to another person's thoughts and ideas. Making an effort to perceive another's point of view and emotions.</p>	 <p>Thinking Flexibly <i>Look at it another way!</i> Being able to change perspectives; generating alternatives; considering options.</p>	 <p>Questioning and Posing Problems <i>How do you know?</i> Having a questioning attitude; knowing what data are needed & developing questioning strategies to produce those data. Finding problems to solve.</p>	 <p>Thinking Interdependently <i>Work together!</i> Working with and learning from others in reciprocal situations. Teamwork.</p>
 <p>Thinking & Communicating with Clarity and Precision <i>Be clear!</i> Striving for accurate communication in both written and oral form; avoiding over-generalizations, distortions, deletions and exaggerations.</p>	 <p>Applying Past Knowledge to New Situations <i>Use what you learn!</i> Accessing prior knowledge; transferring knowledge beyond the situation in which it was learned.</p>	 <p>Gathering Data Through All Senses <i>Use your natural pathways!</i> Paying attention to the world around you. Gathering data through all the senses: Sight, Sound, Smell, Taste, and Touch.</p>	 <p>Creating, Imagining, and Innovating <i>Try a different or new way!</i> Generating possibilities; playing with new ideas.</p>
 <p>Taking Responsible Risks <i>Venture out!</i> Being adventurous; living on the edge of your competence.</p>	 <p>Finding Humor <i>Laugh a little!</i> Finding the whimsical, incongruous and unexpected. Being able to laugh at one's self.</p>	 <p>Responding with Wonderment and Awe <i>Become intrigued!</i> Finding the world awesome, mysterious and being intrigued with phenomena and beauty.</p>	 <p>Remaining Open to Continuous Learning <i>Learn throughout your lifetime!</i> Having humility and admitting when you don't know and are curious to find out. Resisting complacency.</p>

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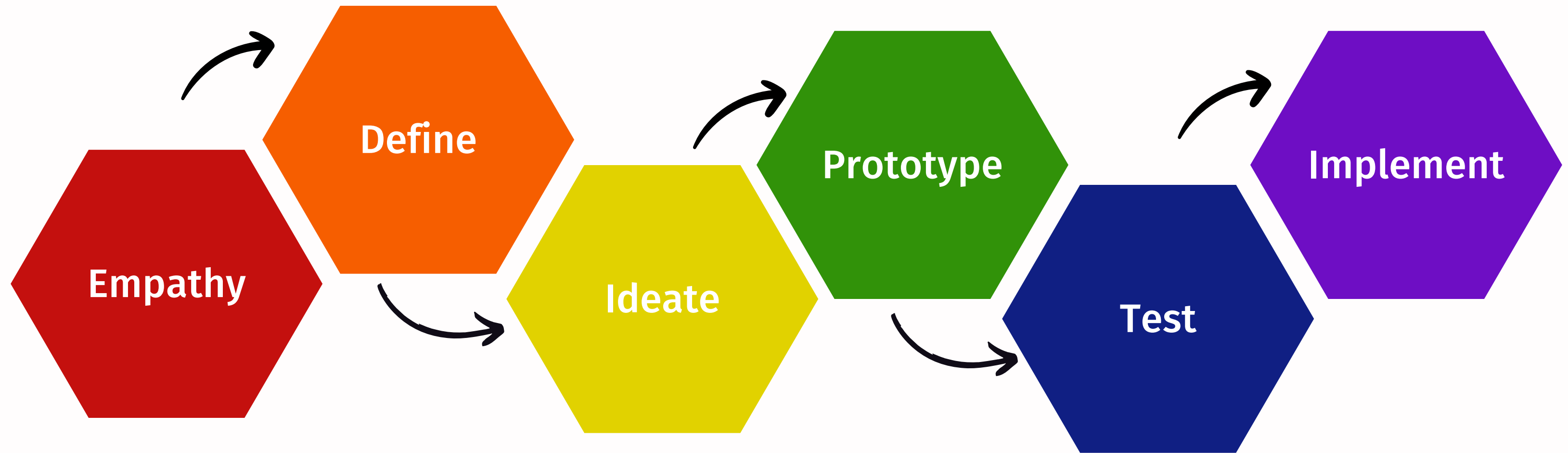


Habits of Mind

IB Learner Profile

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Design Thinking Process



Future Ready School Design Challenge

Dear Leader,

We need your help. The learning spaces in which we teach, learn, and grow have tired. They have survived multiple generations of learners, but the needs of the world have outstripped what can be provided by desks, a white board, and a teacher desk.

The learners of tomorrow that are truly not only college- and career-ready, but life-ready need to be learning in spaces that allow more collaboration, curiosity, and creativity to flourish. Imagine the typical classroom: it was never designed for the level of sophistication in learning that is happening in excellent schools today.

Let's change this together by walking through our spaces and rethinking about the physical, emotional, and digital spaces that surround our students and adult learners. Let's ask our kids what they need and want in their learning experiences.

We realize that there are budgets and legacy practices that are barriers, but it is amazing how a group of educators can come together and problem solve around grand solutions for kids. The time has come to make this a priority to prepare our kids for a world of change that demands big thinkers that care deeply. Through how and where they learn, we can make this a reality.

Signed,

A Hopeful Educator

(The Space by: R. Dillon & R. Hare)

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Future Ready School Design Challenge

10:00

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Reflect

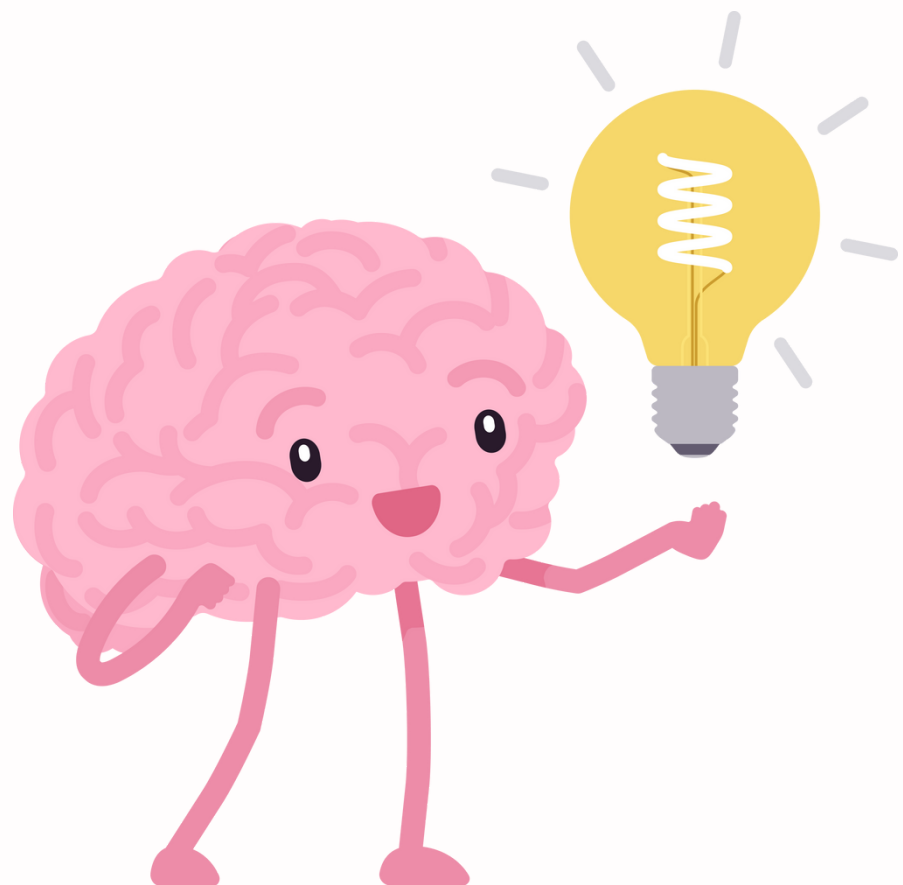


Why?



Final Reflections

What is one thing that resonated with you?



What is one thing you will share with your PTA?

Thank you!

