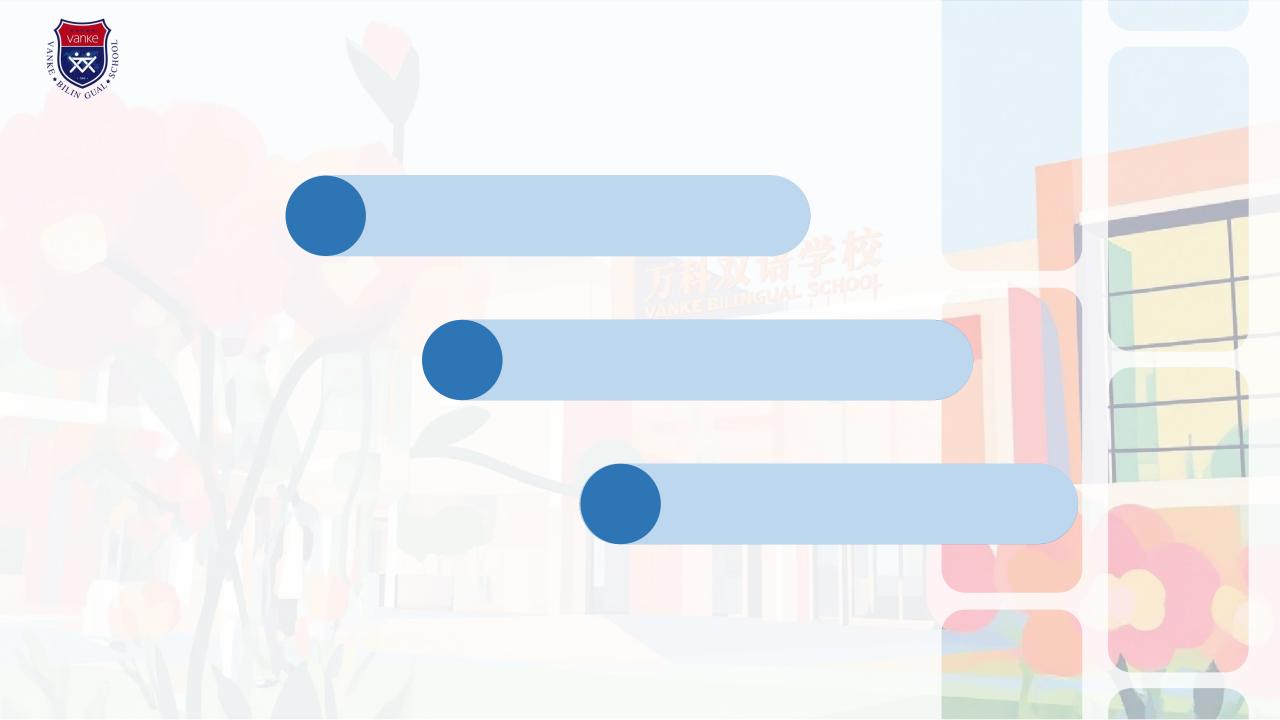


Concept-based Learning Empowers Transition from kindergarten to Primary School

Agnes Cheng 2025. 10.25



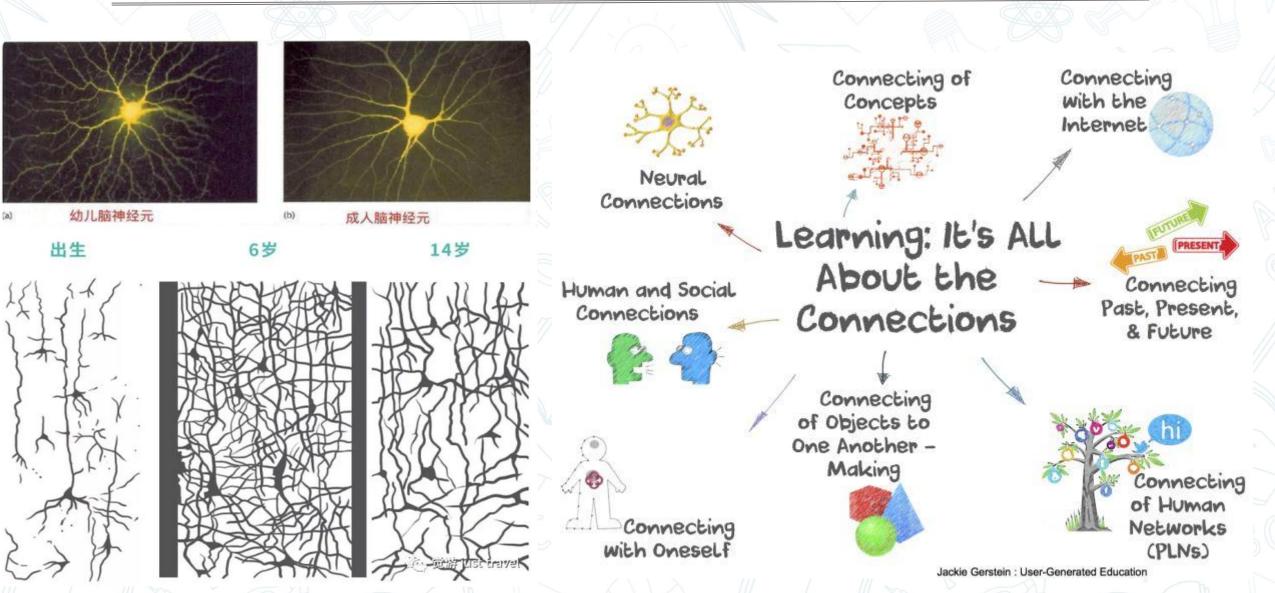






The Essence of Learning: Connection







Redefining Learning



the application and

DAVID THORNBURG

FROM THE

CAMPFIRE TO THE

HOLODECK

CREATING ENGAGING AND POWERFUL

21ST CENTURY

LEARNING ENVIRONMENTS







the quiet reflection we do on our own





Campfire

or storytelling style of teachina

IL TOSSEY-BASS

A Wiley Brand



the social learning that happens when we discuss concepts with each other



High-quality Learning





Ensuring appropriate levels of challenge Facilitating first-hand experiences Meaningful context and real-world connections Working with multiple approaches and representations

Ensuring

cognitive

engagement

实时评价:建立自主学习

Learning goals

Diagnosing student learning Feedback Adapting to student thinking

Using formative assessment and feedback

Fosterina

classroom

interaction

High quality teaching

Crafting quality subject content

Providing socialem otional support

学科内容: 建构真实理解

Crafting explanations and expositions Clarity, accuracy, and coherence Making connections Nature of the subject

情感技能:体验真实关系

Nurturing a supportive classroom climate Building relationships (teacher-student) Building relationships (student-student) Explicitly teaching and actively practicing social-emotional skills

课堂模式:解构真实学习

Whole-class discussion Student collaboration Questioning and responding







What to connect from kindergarten to

Primary School?



Learning Habits

Academic Foundation

Thinking Skills

Social Skills

Self-

Management

Independence

Confidence

Emotional Management

Behavior & Disciplines

COGNITIVE SKILLS

PERSONAL SKILLS

INTERPERSONAL SKILLS

INSPIRE UNLIMITED POTENTIAL



Some Definitions of CONCEPT



Concepts are mental constructs drawn from a topic or a process that transfer to new situations and contexts. They allow us to organize, make sense of, analyze, and interact with information in a complex world.

As the building blocks of thought, concepts create "the natural bridge between mind and the world" (Rosch)

Concepts transfer across time, place, and situation.

In a rapidly changing world, our ability to transfer concepts to unfamiliar contexts gives us immense cognitive advantage.

An understanding of concepts help us make objects, situations, and ideas meaningful and connected. They build students' critical thinking skills and their ability to analyze and deeply understand the world around them.

Concepts exist at different levels of generality, both within a subject area and across disciplinary bounds

Providing the greatest breadth, the concepts are the most transferrable to new contexts and situations



Conceptual Understanding in the PYP



Conceptual understanding creates opportunities for learners to make connections, transfer and apply skills, knowledge and understanding across, between and beyond subjects.

Conceptual understanding is key to an IB education

It is a non-linear, ongoing process throughout which understandings evolve and misconceptions are identified and dispelled

Conceptual understanding is a understanding that connects factual, procedural and metacognitive knowledge

Concepts are fundamental, abstract ideas and play a critical role in organizing, designing and planning curriculum and learning

In the PYP, concept-based inquiry is a powerful vehicle for learning that promotes meaning and understanding, and challenges learners to engage with significant ideas.

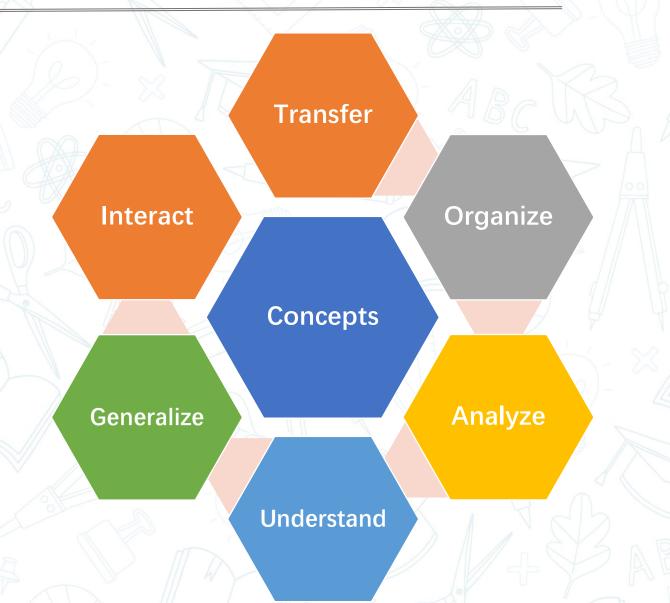
Conceptual understanding is a understanding that connects factual, procedural and metacognitive knowledge



Concepts function in cognitive skills building



- **♦** Theme/title
- **♦** Central idea
- Driving concepts
- Big ideas
- Guiding questions
- Critical contents
- **♦** Key skills
- **♦** Assessment rubric
- **♦** Reflect/overview





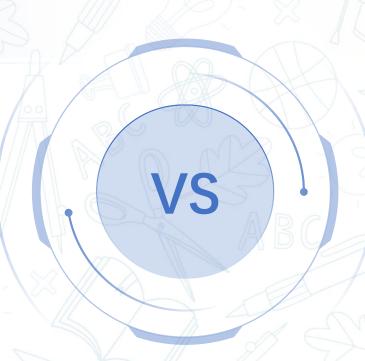
Macro-design with concept-based learning





Fact-driven Curriculum

- ◆ Knowledge-based
- ◆ Contents heavy
- ♦ Skills-related
- ◆ Supported by evidence
- ◆ Frequently topical
- Encourage recall and comprehension



Concept-driven Curriculum

- Open-ended
- Enable exploration of complex issues
- Highlight opportunities to compare and contrast
- Explore contradictions
- Lead to deeper disciplinary and transdisciplinary understandings
- Promote transfer to familiar or less familiar situations, issues, ideas and contexts
- Encourage analysis and application

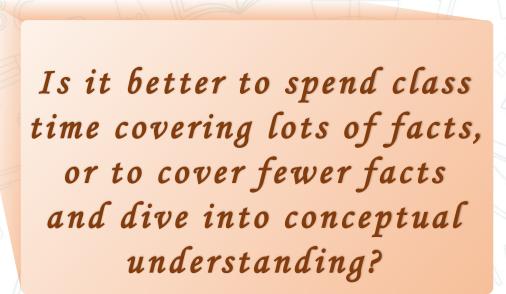


A concept-driven curriculum is the

means through which learners develop their conceptual understandings. Learners co-construct meanings and mental models about how the world works based on their experiences and prior learning.













Concepts as Content Organizers

Concepts are used to organize prescribed content, are used as prescribed content, or are used to establish connections across content, e.g. multiple lessons or units.

This is what learners will learn: it will therefore directly affect the aims, objectives, assessment and learning activities. Concepts are part of the delivered teaching and assessment.

Conceptsas Curriculum Organizers

Concepts are used as a rationale for all aspects of curriculum and assessment. They can directly shape a coherent curriculum and many learner experiences.

They help determine the methodologies used in areas such as unpacking learning, timetabling, teacher roles, collaboration.

For example, in the Primary Years Programme (PYP), transdisciplinary themes are an example of using concepts to organize the entire curriculum. See for example the online workshop "Learning in a transdisciplinary world".

INSPIRE UNLIMITED POTENTIAL



Concepts and the role of subjects





Subjects are seen as collections of **concepts**, **skills**, **theories**, **methodologies** and **examples** that contribute to an understanding of how a subject connects to the central idea.

Through the integrated subjects, students come to appreciate that there is a body of subject-specific **knowledge**, conceptual **understanding** and **skills** that can be drawn upon in order to engage with global challenges and opportunities.

NSPIRE UNLIMITED POTENTIAL



Curriculum Design-Connection & Transition

我们身处什么时空

Where we are in place and time

An inquiry into histories and orientation in place, space and time through

communities, heritage, culture and environment natural and human drivers of movement, adaptation, and transfo



Principled

2024-2025学年 PYP Program of Inquiry 探究计划

勤于思考

积极探究

Inquirers

Thinkers

年龄段

小班 K1

(3-4岁)

中班 K2

(4-5岁)

Who we are

An inquiry into identify as individuals ad as part of a collective through individual, emotional and spiritual health and well-being

中心無難 Central Idea **申的問題 Central Idea:** 由我探索管电势们了我自己基金,以及我们处何与他人相处。 用五种卓有中国家和表达我们陶器的世界。

Self-Exploration helps us understand who we are and how we relate to others. 極緊迫家 Lines of Inquiry: 成长数型化 Grow and change (形式Form)

自然的和不審教的 Likes and dislikes (安化Change) 家人和我 Me and my family (要果Connection)

对身体视动的认识自动种模型的主逐习惯和生医方式。 Understanding the structure of the body can feeler healthy habits and identyles.

最終的遊遊節性和特別 Our body has many unique parts and different functions (功能Function) 型式方式在可模对音楽器器的影响 Lifestyle and habits affect our health (展語Causadon) 施用部門前に開発性 How we should protect our body (WINCorrection)

大班 K3 (5-6岁)

人们在安全的环境中等别的政治。

People learn and grow in a changing environment.

揮突线紫 Lines of Inquiry:

on different role and responsibilities as they grow up (MINCounsilon) MINSONERSE School the changes from limiter parties to primary school (MINCoher) BRANISSE FIS The challenges and responsibilities of Change (MINCounsility)

超学科

Grade 5 五年級

Grade4

四年级

Grade3 三年级

年级

我们如何表达自己

政策総案 Lines of Inquiry:

中心思想 Central Idea:

中心思想 Central Idea

艺术服务院们用这位条形元素。

揮死线策 Lines of Inquiry:

数的运用编售 My five senses (BistForm)

How we express ourselves

An inquiry into the diversity of voice, perspectives, and expression through

personal, social and cultural modes and practices of communication intentions, perceptions, interpretations and responses

Use five senses to explore and express ourselves in the world around us

用五种感音发现和排浆世界 Use five senses to explore the world (安化Change)

都官的不用体验 Senses can be expenenced differently (概律Perspective)

Stories come in many forms and can be expressed in different ways

不知的故事形式 There are many different types of stories (形成Form)

不得形式的健康等話 Types of creative expression (風網Perspective)

艺术的象面形式 The forms of artistic expression (形式Form) 関係形式を発送 How to express oneself through art (初級Function)

播放不夠的方式連絡故事 Interpret stories in different ways (重新Perspective)

銀鐵套已的效率 Create our own stories (联系Connection)

Art helps us express our imagination and inspiration.

Caring

Reflective

中心思想 Central Idea

PERSON Lines of Inquiry:

即使不得的地方有助于我们了解我们的处理。

Exploring different places helps us understand our world.

receive and the second collection of the received places around the world (MEXCausation) PRESENT AND EXCLUSIONS The connections between different (Respies and cultures (MEXCannection) INTERESTRICTION (Adapt) is different local description and cultures (Reticharge)

世界如何运作

patierns, cycles, systems

中心無難 Central Idea:

我们局理的世界能需要节班安化。

探究機能 Lines of Inquiry:

How the world works

An inquiry into understanding of the world and phenomena through:

等个単型部を下発的性に Each season has different characteristics (田式Form)

部学研究とAritrals and plants adapt to sessonal changes (功能Function)

The way humans share water with other organisms affects the ecological environment.

世界各地形を記載的時 Communities around the world utilize water resources (研修Connection)

人们的情報的表現實際的概任 Humans have a responsibility to use water which (衛門Responsibility)

-diverse practices, methods and tools -discovery, design, imposition; possibilities and impacts

The world around us is changing with the seasons

人类与其他生物共享水资课的方式和地生态对格。

的名字用面性 Water has different properties (ESCForm)

我们如何组织自己

了解不同的灾难方式有电子吸灯了朝人和他的迁移。

Knowledgable

不再把充理赔偿工具 Deferent forms of transport (即成Form)

中心影響 Central Idea!

學究线表 Lines of Inquiry:

How we organize ourselves

An inquiry into systems, structures and networks through:
--interactions within and between social and ecological systems.

responsibles to twe hoods and hade practices; hierarch and unintended or response deflort, collectoration and decision making

医哈姆特洛氏病征 The roles and responsibilities of transportation users (我任用e

Eon helps us to learn how people and goods

Communicators

共享地球

Sharing the planet

Open-Minded

野乳線像 Lines of Inquiry:

中心思想 Central Idea:

寶寶繼素 Lines of Inquiry:

rights, responsibilities and dignity of all

-pathways to just, peaceful and reimagined futures -radure, complexity, coesialence and wasdom.

生物的生存生长需要特定条件、直接接领额和电子共存。

生命的銀纤维器 Unique life cycles of lying things (安化Change)

生物的生性和關關 Growth and the care of living things (例信Responsibility)

mrt.A.在国际下限于其内的知识和自己的A. Today's children face new risks and challenges unlike any other time.

MICES NO BEST The edvantages and deadwartages of modern technology (MISC auterion)

An inquiry into the interdependence of human and natural works through:

The survival and growth of living things requires specific conditions, and they depend on each

and Stockers MARTER, AND, INVESTIGATION, Cartinophose and bigates to approviding the AND MERCED AND THE

Grade2

Grade1



Central idea comparison-Kindergarten



Who we are - nature of self beliefs and values, human relationships, rights and responsibilities

Physical Education

Connection - relationships, team work

Music

Function - relationships (between the artist and the audience)

Maths

Function – relationships, belonging systems – place value

People seek places where they feel a sense of belonging

Connection – behaviours, interactions, belonging Function – relationships

Social Studies

Connection, function

Behaviour, relationships, interactions and belonging

Languages

Connection – belonging, relationships, interactions

Visual Art

Function – behaviour (ways artists ca use creativity to convey a message)

PSE

Connection – behaviours, feelings **Function** – belonging, interactions

INSPIRE UNLIMITED POTENTIAL



Central idea comparison-Primary School



How we organize ourselves - Communities create a sense of purpose, identity and connection

Physical Education

Connection - network

Music

Function - relationships (between the artist and the audience)

Maths

Form - system, networks

Community help to build ourselves

Social Studies

Form – system, interdependence connection – relationships

Connection, responsibility, form System, networks, interdependence

Languages

Connection – interdependence

Visual Art

Form - system

PSE

Connection – networks
Responsibility-interdependence



Central ideas for deep conceptual understanding DTD



Central ideas are globally significant and invite student inquiry around a broader conceptual understanding. In developing or revising a central idea, consider the following questions:

Does it offer students opportunities to explore the

commonalities and divergences of our experiences?

- understanding?
- Is it broad enough to offer multiple lines of inquiry?
- Is it underpinned by concepts?

- Is it relevant to students in all cultures and contexts?
- Will it engage students in thinking critically, creatively and compassionately?

Does it promote the associated conceptual

- Does it present an opportunity for students to co-
- construct meaning of the conceptual understanding being explored?

Is it open to a range of student responses?

Is it written in a neutral voice?



Strategies to develop Conceptual understanding



Learning experiences

Evidence

Environment

Resources

Multimodal communication











Concept-based learning: "who we are" —— Lines of Inquiry

Connection:

- · Both focus on "Individual Growth and development"
- · Kindergarten emphasize "adapt to the external

changes"

Primary school moves to "Proactive internal choice"

· Concept changes from "change, causation,

responsibility"

to "form, function, opinion", thinking level is

upgrading gradually

NSPIRE UNLIMITED POTENTIAL DEVELO

WELL OF	報告を担ける場所で Box We Express Chapters ()	Ref (Bong to Both). Have Northern bed becomes	All this Festiviti. When We Are in Research Down	DROMINT Fee to Well Wale	Harrier Share the Mana
中心を思いませませる。 人ではできますをみずである。 Foods face colgran for decides (できない)	MARCHAELER AND A. STREET AND ASSESSMENT OF THE PROPERTY OF T		中心を受けれる。 のまでのかれたで見てものです。 (20年の) (20年の) Replaced Commonweal Indoors		中心 見合い with Nove 会で、IEE は何い Visit はん Todays did that has severally and professy a
現象配合/ended Compa 記事人形でmotor 事代のmot 計画specially	MSEZS posted Compts 607, form \$2,00 responses 190 responses		報告配合Provided Change 記名Proposition 記名Proposition またい		MS 在25 control County's MR A.S.Counteder R.大 Couper de Be ₂ (例 Transition
図目的 man of impro 図目は毎日 man of impro で 184 年 学校立てのできた。 184 年 学校立てのできた。 184 日 年 学校立てのできた。 では、184 年 学校のできた。 では、184 年 学校のできた。 イントログでは、184 年 では、184 年 できた。 イントログでは、184 年 では、184 年 できた。 184 日 184 年 できた。 184 日 184 年 できた。 日本日本学校のである。 日本学校のである 日本学校のである。 日本学校のである。 日本学校のである。 日本学校ので	A POLICIA CONTROL & BRITANISCA		保険的になっています。 上部を基準であっているのです。 表では、 表では、 を対象をあったのでは、 を対象をはなったのでは、 をはないません。 とはないません。 とはないません。 ではないまないまないまないまないまないまないまないまないまないまないまないまないまな		EXECUTION OF THE ACT O

格別を基準 Control Yorks (ASSE) Top your (ASSE) Top you make 会である。 ASSE Assessed を見かる。 Assessed Assessed (ASSES) (Assessed ASSES) (ASSESSED ASSESSED A	格別書談社 Lance Craft 報子の基準のmercine 第17年2 Common come 第17年2 Common come 第17年3 Common Common を見からいまする。 2年12年 2年12日 (Common com Common ではないます。 2年12日 (Common com Common ではないます。 2年12日 (Common com Common ではないます。 2年12日 (Common com Common ではないます。	格内を担待 Laurer Profit 第二十分であった。 第三十分であった。 第二十分でを 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で 第二十分で	機能を記録し、construction は同様のであった。 大学の表現のは、con の表現のはない。 の表現のはない。 の表現のはない。 なのであるかのは、consing があれば、 なのな。 のは、 のは、 のは、 のは、 のは、 のは、 のは、 のは、	
ARPH lected between the control of t	入情學明 HOLHO MARION を手が ・ が見ることの 数子ないる	A 整理 Hotel Step (1) 社会中 (1) 并且 Hotel (1)	A語学等 i water papers. 特殊School 表質 ing tip	

Q1 一年線							
2. Who we are 我们是他	1. How we organize outselves 我们如何是似我们	3. How we express surreties 我们知何来达自己	4 Where we are in place and time 使们身处怎样的时至	6. How the world works 世界如何操作	6. Sharing the planet 共享共建		
Central ides 中心 引度。 Popper discuss here create a balanced Heryte 人们的表析學和例如學術 東京的意思。	Central idea 中心基础 Communities overte a sense of purpose identity and connection 世界的工作概念。每分以 网络介绍报话。	Control ides 中心思想。 Sories can be created and stated in many of Forent ways 点种可以用于多种阿拉克 实验时用分类。	Control idea 中心基础: Journeys help us explore, aduct and unconstant calcust directory. Journeys to Directory. JOURNEYS A. 2011.	Commatidae 中心思想: Living things need basis conditions to survive and influence each other. 中海河区之间的各种中, 存、并且种点距离。	Central idea 中心基礎。 Reducing revising and recycling help humanity to be responded to for the environment 成分使用。再使用。现代 可用用用的表面可以对对 解的系统的。		
Specified Concepts 特定概念 Form 形式 Function 心能 Perspective 反动	Specified Concepts 特定概念 Form ISS Connection ISS Faraparability 表任	Specified Concepts 特定概念 Function 共行 Perspective 提及 Charge 改变	Specified Concepts 特定概念 Form 形式 Change 全体 Connection 数是	Specified Consepts 等定概念 Form 形式 Cassaton 因是会员 Connection 现象	Specified Concepts 特定概念 Connection 联系 Causation 联系完集 Responsibility 影響		
Concepts. M.S well-being Still nutrition 12 P. Riness-12 R	Concepts 概念 system 系统 networks 网络 incordoperscence 相子保存	Concepts 概念 Corre 特別 Corflict 计类	Concepts. 概念 Discovery 未证 Custure 文化 History 研究	Concepts 概念 Adaptation 指定 Classification 分页 Habitat 概形域	Concepts. 概念 Conservation 化門 Resources 資源 Pollution 形形		

beneft Adj	omployment #12 roles (1)B		Fapinorion 長雲 Adaptation 活在	Ecology 1.6-₽	
Lines of Inquiry 株分績省	Lines of Inquiry 在完後者	Lines of Inquiry 核光鏡電	Lines of inquiry 有完發者	Lines of Inquiry 技术政策	Lines of Inquiry 核介的者
1. Different disease affect out feet in Antiferent disease (Antiferent Berlinstein Berli	1. Different Figure of community of Principles 20. Different Florida in the community provide officer in the community provide officer in the community provide officer in the community. Floridate Accounts to the community. Accounts the community as the community.	1. Different paths of stores and a unique landers の発生下に近か音動性的 が変 2. Digital took (ide A) distingto fine way we create and chara addama. 次十二点次是形式过去。 3. Stories convey and september linking and personal stores and personal stores and and and and and and and and	1. O West Option of parties 本子的能比を終 2. Journeys can load to calizate locatings and tracterously (別で10人 を変えた公益の手腕 3. The Impact of parties or individuals and carrieration た在分子人用社区が影响	1. Luring Dangs service toperating on cerear conditions 化地位 经国际基本条件 2. How Extra things expension or could other and that extraction of 上地位的新版化表现 2. The impact of changes in the endocument on thing things 不能	、 the couple affect the measurement 人 東京 社会的 野田 2. Hit Rodons received the Rodon received 社会 大きな 大きな 大きな 大きな 大きな 大きな 大きな からない はい ない はい まった アール・アール 大きな





lines of Inquiry 1: school life changes (Concept: change)

Activity design:

- "PS Exploration" worksheet (form):
 observe and take notes on the difference, campus, canteen, playground etc.
- Draw your favorite activity and look forward to PS life, save it and expect to open it after Grade 1
 - 3. role play"I am a PS student" (opinion) : Model PS classroom, view as a PS student.

Identify and describe "CHANGE".







2. "My time capsule" (change):





Lines of Inquiry 2 & 3:

How to adapt to the changes & take different responsibilities (Concept: causation/responsibility)

Activity design:

- 1. Reading《小阿力上大学校》(Causation)
 - Causation from afraid of going to school to like,
 - Understand the causation between emotional change
- and adaptation
 - 2. "class task" (responsibility)
 - Class Librarian, Plant manager role setting
 - Emphasize that each one should take responsibility.
 - 3. Make "Graduation Count down" plan
 - (responsibility & change)
 - Plan graduation activity, learn time management



引导儿童理解变化的原因,并初步建立责任感,为适应新角色做好准备。





Concept-based growth

For Children:

- ☆ From "afraid of change"to"Understand and embrace change"
 - ☆ From "follow rules passively" to "actively make choices"
 - ☆ Form transferrable thinking model (concepts)
- ☆ Personal qualities (self-management、thinking、social skills)

For teachers:

- ☆ clear structure of design and connecting curriculum
- ☆ From "teaching knwoledge" to "using concept to guide"
 - ☆ Deep and collaborative planning



Micro-design with conceptbased inquiry

TUNING IN

- · What do I know about the topic?
- . How do I know it?
- What experiences do I have with this topic?
 - .What do I want to know?
- .What ideas am I interested in?
- •What am I wondering?
- .What are my questions?
- ·What am I feeling?

FINDING OUT

ON PERSONAL

REFLECTING

MAKING CONCLUSIONS UNDERSTANDINGS

- · What do I now know and understand about the Central Idea?
- Have I shared what I have learned with others effectively?

TAKING ACTION

· How am I going to use what I learned to take action and make a difference? How will my actions affect others? What was the highlight of this inquiry?
 How have my feelings changed throughout this inquiry process? · From what I have learned.

what do I feel most passionate about?

How can what I have learned help

me in my life or help others?

. How did I learn best? . How am I going to take action to improve my learning?

How can I improve my learning?

- Did I answer all my questions?
- What am I going to do now with what I have
 - · What would I do differently?
 - · How do I feel about the way
 - I shared my learning?
 - · How do I feel about what others thought?

SORTING OUT

· What information do I wish to share?

GOING FURTHER

- Who will be my audience?
- · Are all my questions answered?
- . Have I considered the different point of view on this topic?
- Have I found enough information?
- · How can I plan to show the connections I have made?
- . How do I want to show what I have learned?
- . What am I feeling about showing what I have learned?





At a Glance

1.How we organize ourselves 我们如何组织我们

Central Idea 中心思想

Communities create a sense of purpose, identity and connection. 社区创造目标感,身份认 同感和归属感

Specified concepts 关键概念

Form形式 Connection联系 Responsibility 责任

Lines of Inquiry 探究线索

- 1.Different Types of community 不同的社区类型
- 2.Different Roles in the community provide different help and support. 社区里不同角色为我们生活提供方便和帮助
- 3.Our Responsibility to community 我们对社区的责任

Learner Profiles 培养者目标

Reflective 及时反思 Open-Minded 胸襟开阔 Balanced 全面发展

ATLs **学习方法**

Communication Skills 沟通技能 Social Skills 社交技能 Self-management skills 自我管理技能

Focused Subject 核心学科

PSPE 个人、社交和体育 Language 语言 Science 科学



Inquiry Cycle

1.Tuning In

2.Finding
Out







Students explore prior knowledge about different communities.

This stage builds connection from students and sets the foundation for inquiry.



1.Tuning In





2.Finding Out



Students conduct research to learn more about the role of communities and their importance. This is where the students expand their knowledge through inquiry.

3. Sorting Out







2.Finding Out

Inquiry Cycle

3. Sorting Out





Students organize their findings and identify key ideas, they began learn about their own responsibility in the community. This stage encourages critical thinking and connections between concepts.

Further



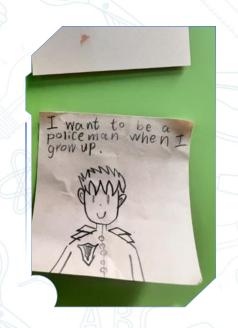


3. Sorting Out





4.Going Further





Students explore deeper questions, such as "why are communities are important?", "what do I want to be when I grow up" and "who are community members.

This stage emphasizes creativity and problem-solving.

5.Making Conclusions







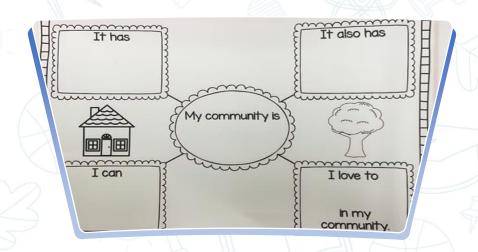
4.Going Further



Inquiry Cycle

5.Making Conclusions

Students began to reflect their learning from the unit. Students made a community reflection book. This stage emphasizes connection and reflection skills.



6.Taking Action





5.Making Conclusions





6.Taking Action



Students apply their learning by taking actions in their community, such as visiting various buildings related to the unit. This stage allows students to take **ownership** of their learning and contribute to their community.





UOI

- 1. Firefighter
- 2. Police Officer
- 3. Doctor
- 4. Teacher
- like elephant, egg.

Spelling

Every week, we study words that are connected to our UOI and phonics

Reading – read books about community helper, such as "The Red Hat".

Writing – students wrote about what they wanted to be when they grow up.

Math

Speaking & Listening – students role play and act out different community helpers in class.

Art

During art class students made different community helper drawing and figurines.

short e

says /e/

Subject integration

Know the quantity in the community, know the direction and position in the community.

Ê

3

Social Studies •

Cultural connections – Different community helpers and their roles within the community.





English



NSPIRE UNLIMITED POTENTIA



Assessment



Parent Signature:		
	Unit 1 - How We Organize Ourse	elves- Communities
Class :	Teacher :	Date :
Please see the assessment task	from Unit 1 Summative Assessment.	
具体任务请详见另一任务纸 Unit	Summative Assessment.	

	E	M	A	В
Understanding the concepts [*] Form 形式	□ Can explain how our community is organized with lots of details and examples. 非常清楚地理解每个社区帮助者的职责 和他们怎样把工作做好的。	□ Can describe different parts of our community and how they work together. 了解一些每个社区帮助者的职责 和他们怎样把工作做好。	□ Can talk about some parts of our community. 对于每个社区帮助者的职责和他们怎样工作的理解有限。	Requires additional support to identify parts of our community. 需要额外的支持来识别我们社区的各个部分。
Connection 联系	□ Fully understands how different roles work together in the community to create a happy, safe and healthy place. 完全理解创建一个快乐,健康,安全的社区是需要不同的角色在一起工作的。	□ Can connect community roles to what people do to help each other. 对于创建一个社区需要不同的人 在一起的只有一点理解。	□ Shows limited understanding of the people needed to build a community. □ Can make some simple connections to community roles. 对于需要人去怎样创建一个社区的理解只有一点。	□ Doesn't make any connections to community roles. 对社区角色没有任何联系
Responsibility 責任	□ Provides a comprehensive list of responsibilities within the community, with detailed examples and explanations. 提供了社区内责任的全面清单,并附有 详细的例子和解释。	□ Clearly identifies several responsibilities within the community with examples 清楚地识别社区内的几项责任,并给出例子。	□ Identifies some responsibilities but lacks detail or accuracy. 识别了一些责任,但缺乏细节或准确 性。	□ Identifies few or no responsibilities within the community. 对社区角色没有很多联系。

Our assessment focuses on students' ability to demonstrate understanding of communities and apply their learning by taking actions within their own communities.



Using subject-specific concepts



There are many opportunities in developing conceptual understanding to encounter, engage with, utilize and develop understanding of subject-specific concepts, knowledge, and skills. Planning for learning using conceptual lenses supports meaning-making and transferability, and helps learners to connect to and strengthen their knowledge and the process of how they learn thereby developing their conceptual understanding.

So, what does this mean for PYP practice?





Using subject-specific concepts



Guidance in PYP: From principles into practice states the following:



 All learning and teaching in a PYP setting, including subject knowledge acquisition, is through concept-driven inquiry.



Concepts can be subject-based and/or transdisciplinary.



 Teachers identify authentic links between subject area concepts, knowledge and skills and the programme of inquiry and help make them explicit to students.



Using subject-specific concepts



Guidance in PYP: From principles into practice states the following:



• Single-subject teachers and support teachers connect learning through the programme of inquiry's central ideas, wherever the learning is authentic.



 Single-subject teachers plan their own conceptual inquiries that connect to the grade/year-level central ideas through the specified concepts.



• The exploration and re-exploration of concepts lead students towards an appreciation of ideas that transcend subject boundaries.



This list illustrates that there are literally thousands of concepts in all subject areas, some specific (Micro-Concepts) and others that are broad and transdisciplinary (Macro-Concepts). Concents are abstract, timeless and universal. By using concentual lenses, we can take factual knowledge learning to a transferable level.



Concepts		This list illustrates that there are literally thousands of concepts in all subject areas, some specific (Micro-Concepts) and others that are broad and transdisciplinary Concepts are abstract, timeless and universal. By using conceptual lenses, we can take factual knowledge learning to a transferable level.								(Macro-Concepts).		
Science	Social Studies	Literature (Themes)	Reading Listening	Writing	Drama	Mathematics	Music	Health	Physical Education	Art		
Change	Change	Change	Comprehension	Voice	Design	Addition	Aesthetics	Wellness	Space	Space		
Systems	Systems	Systems	Response	Organization	Voice	Subtraction	Expression	Physical	Movement	Tone		
Order	Patterns	Patterns	Critical Stance	Fluency	Movement	Multiplication	Performance	Emotional	Action/reaction	Shape		
Interactions	Interactions	Interactions	Purpose	Word Use	Character	Division	Composition	Mental Health	Energy	Colour		
Interdependence	Interdependence	Interdependence	Perspective	Conventions	Personality	Fraction	Production	Social Health	Flexibility	Shade		
Organisms	Culture	Perception	Reflection	Grammar	Conflict	Angles	Rhythm	Disease	Fitness	Texture		
Energy	Chronology	Character	Criticism	Mechanics	Emotions	Scale	Melody	Nutrition	Balance	Response		
Waves	Governance	Passion	Motivation	Format	Physicality	Area	Harmony	Exercise	Speed	Appreciation		
Heat	Power	Love / hate	Connection	Onomatopoeia	Influence	Value	Timbre	Safety	Strength	Form		
Light	Environments	Family	Evaluation	Alliteration	Body Position	Perimeter	Dynamics	Choices	Endurance	Proportion		
Sound	Identity	Conflict	Judgment	Symbolism	Action/Reaction	Pattern	Articulation	Responsibility	Patterns	Composition		
Matter	Production	Power	Text evidence	Text Structure	Balance	Function	Mood	Abuse	Cooperation	Arrangement		
Habitat	Distribution	Identity	Synthesis	Details	Timing	Space	Form	Neglect	Conflict	Viewpoint		
opulation	Consumption	Survival	Audience	Rhythm	Space	Shape	Tempo	Change	Teamwork	Perspective		
ransfer	Civic Values	Fear	Entertainment	Flow	Direction	Notation	Mood	Growth	Motion	Manipulation		
nteraction	Human Rights	Inner Conflict	Explanation	Cadence	Tone	Time	Pattern	Relationships	Range	Aesthetic		
Reproduction	Perspective	Courage	Research	Audience	Pitch	Parallel	Pitch	Feelings	Force / power	Contrast		
roperties	Behaviour	Friendships	Connections	Persuasion	Dialect	Unit	A capella	Behaviors	Locomotion	Illustration		
Conductivity	Customs	Jealousy	Inference	Explanation	Expression	Number	Accelerando	Rights	Competence	Construction		
rosion	Landforms	Tolerance	Imagery	Information	Articulation	Ratio	Adagio	Responsibilities	Manipulation	Abstract		
cycles	Scarcity	Idealism	Genre	Communication	Pronunciation	Proportion	Beat	Stress	Composition	Balance		
Weathering	Immigration	Isolation	Text Structure	Style	Pattern	Angle	Crescendo	Coping	Tactics	Craft		
nsulation	Migration	Greed	Directionality	Emotion	Beat	Probability	Descant	Self-esteem	Safety	Technique		
Motion	Inventions	Sacrifice	Self Correction	Cause	Mood	Order	Diminuendo	Communication	Stamina	Communication		
orce	Trade	Compromise	Prediction	Effect	Function	Quantity	Discord	Family	Strength	Transformation		
Adaptation	Freedom	Control	Sequencing	Punctuation	Feeling	Measurement	Forte	Community	Suppleness	Relationship		
cosystem	Leadership	Justice	Character	Purpose	Setting	Congruency	Legato	Sexuality	Determination	Method		
Habitat	Government	Humanity	Cause	Editing	Costume	Symmetry	Polyphonic	Life Cycle	Sequence	Graduation		
Balance	Justice	Inhumanity	Effect	Procedure	Lighting	Tessellation	Riff	Needs	Dynamics	Referencing		
xtinction	Order	Identity	Problem	Atmosphere	Production	Inverse	Scale	Conflict Resolution	Direction	Scale		
Organism	Equality	Culture	Solution	Spelling	Staging	Integer	Sequence	Anxiety	Relationships	Expression		
Organs	Imperialism	Perspective	Climax	Form	Improvisation	Factor	Syncopation	Lifestyles	Connection	Light		
Conduction	Urbanization	Innocence	Skimming	Phrases	Relationships	Average	Voice	Fitness	Change	Pointillism		
Convection	Needs and Wants	Escape	Summary	Metaphors	Connection	Variable	Harmony	Body Image	Competition	Line		
Diversity	Choice	Deception	Meaning	Possession	Collaboration	Classification	Tonality	Connection	Technique	Movement		

Concept- A Mental construct that frames a set of examples sharing common attributes; concepts are timeless, universal, and abstract (to varying degrees). Specific examples (e.g., cycles, diversity, and interdependence) of the concept may vary, but the attributes are the same. For example, a cycle is a timeless concept. Although specific examples of a cycle differ-water cycle, rock cycle, historical cycle-they all have the attribute of being a repeating pattern.

Macro-Concepts- Key/Significant concepts, transfer over subject/content areas, are very broad. Macro-concepts are often called "integrating concepts" because they can collapse many different examples. They provide the breath of understanding.

Micro-concepts- Reflect the deeper knowledge of the specific discipline. They are content specific. Micro-concepts provide the depth of understanding.

Timeless, Universal- Consider the transferability of ideas through time and across cultures or situations.

Abstract- An idea that is not related to any specific instance or object. It can be potentially applied to many different situations or objects.

Conceptual Lens- The integrating, focus concept for a topic-based study. The conceptual lens pulls thinking to the conceptual and transferable levels, and integrates thinking between the factual and conceptual lens.

Created by Ross Dawson Erickson, H. Lynn, and Carol A. Tomlinson. Concept-based Curriculum and Instruction for the Thinking Classroom. Thousand Oaks, CA: Corwin, 2007. Print.

Erickson, H. Lynn. Stirring the Head, Heart, and Soul: Redefining Curriculum and Instruction. Thousand Oaks, CA: Corwin, 1995. Print.

Rowe, Gaelene. Guiding Young Artists: Curriculum Ideas for Teachers. Melbourne: Oxford UP, 1987. Print

Making the PYP Happen: A Curriculum Framework for International Education: IBO, 2009.



Practice sharing in specific subjects



Concept-based learning Practice in Chinese



Concepts related with WELL-BEING:

Responsibility, Causation

Subject: Chinese

Reading:绿山墙的安妮

Subject related concepts: Inner

conflict, Courage, friendship

Guiding questions:

- 1. What causes well-being? And what result does well-being bring?
- 2. What kind of responsibilities are taken? Can these responsibilities make people feel happier?
- 3. What is the relationship between the inner conflict with the redefining of relationship, and further the following actions?



Unit 1:Who We Are--- Well-Being 语文: UOI 融合阅读

《绿山墙的安妮》Anne of Green Gables

找一找:安妮的 "well-being" 变化与原因

"well-being" 秘密吧!

安妮来到绿山墙后,有时开心,有时难过。请从书中找 3 个不同的情节,填一填"她的心情""为什么会这样(原因)",并画 " ¹⁰ "(开心) 或 " ¹⁰ "(难过) 标注她的 "well-being" 状态。

情节例子(如: "第一次 见到玛瑞拉""在学校和 黛安娜做朋友""不小心 染坏头发")	安妮的心情(开心/难过)	心情的原因(为什么会开心/难过?)	"well-being" 标注
1,			
2.			
3.			

想一想: 责任让 "well-being" 变更好吗?

责任就是"自己该做的事"。书中安妮和马修、玛瑞拉都在承担责任,这些责任影响了大家的"well-being"。

安妮曾经犯过错(比如打碎果酱瓶、说错话),她后来是怎么承担责任的?(举例说明) 这份责任让她自己的"well-being"有变化吗?

填一填: 我的责任与 "well-being"

being"变化:	
□自己整理书包 □帮家人	做家务 🗆 和同学吵架后主动道歉 🗅 (补充:)
1. 我的责任:	
带来的变化: 让我自己	(比如 "更安心,因为不会忘带东西"),让别人
(比如 "妈妈不	用帮我整理,能多休息")。
2. 我的责任:	
带来的变化: 让我自己	,让社会。
3. 我的责任:	
带来的变化:让我自己	,让环境。
回顾与收获:	
1 从安妮的协审用 你哈?	见"承担责任"和"well-being(开心、舒服)"有什么关系吗

总结:

我们跟着安妮在《绿山墙的安妮》里探寻了well-being 产生的原因和结果,还知道了生活中的责任和well-being 息 息相关。安妮的乐观、想象,她和家人朋友的温暖情谊,让 她收获幸福,也让自己成长。我们也从自己的生活里找到了



很多和责任、well-being 相关的事儿。希望大家能像安妮一样,保持乐观积极的心态,对自己、对他人、对社会负责,去创造属于自己的幸福生活!



Micro-design of the CONCEPT-BASED LEARNING in Mathematics



第五单元

-、单元规划与分析

	学科	年级	学期	教材版	章		起止页	Ī	
单元信息				本					
	数学		1	沪教版 5		P71-P72(第1课时)			
	课时	课题	名称	对应教材内容		要点分析			
课时信息	1	分类		P71-72 (3	列1	理解单-	12 7. 2. 2. 7.	体会标准不同	
	2	逐层分类		P73-74		经历逐层分类过程,感知分类的层 次性			
	数与	代 数 □	□数与运算 □数量关系						
学习领域	图形与	几何 🗆	□图形的认识与测量 □图形的位置与运动						
单元主题	统计与概率		□数据分类 ☑数据的收集、整理与表达 □随机现象发生的可能性						
	综合与	实践 □	□主题活动						
443.44	□数感	□符号意	意识 □空间观念 □几何]			直观 🖸	7推理意识		
核心素养 主要表现	□量感 □运算能力 ☑数			居意识	□模型	意识	☑应用意识	□创新意	
	识								
重点渗透	□抽象	☑分类	□集合	口对原	<u> </u>]演绎	☑归纳	口类比	
数学思想	□转化	□极限	口分析	□综合 ᠖		☑比较 □假设		口数形结合	
方法	□模型	口方程	□函数	☑统ⅰ	+ []符号化	□其他		
知识体系		已学过的相关 认识图形		本单元的主	要内容		^全 习的相关内容 表与条形统计图		

元教	1	能根据事物的特征制订分类标准,初步学会依据标准对事物进行分类。						学习活动	设计意图与评价关 注点
学目标	3 4	能根据事物的特征制订分类标准,初步学会依据标准对事物进行分数 经历逐层分类的过程,运用图画、表格、文字等方式记录并描述分类 感知事物的共性和差异,形成初步的数据意识,感受数学与生活的					対应目标 一 情境引入 从"家庭"出	1. 创设情境 :视频中奶奶找扣子遇到困难求助丽丽帮忙。 2. 提出问题 :混乱的扣子如何整理得更清楚?(教材 P71 图) 3. 引出课题 :学生提出"分类"相关语言。(教师板贴分类)	设计意图: 从生活情境出发,没 发学生分类的内在需
単元作业	序号 1 2			描述 进行分类并记录。 类标准并进行分类。		理解 掌握	发(SOLO: 前结构 -> 单点结构)	SOLO目标:从真实需求出发,唤醒学生的前结构经验,并引导他们进入"需要一个标准"的单点结构思维层面。	评价关注点: 学生是否能从混乱 产生整理需求。
目标	3	能按照指定顺序进行逐层分类并记录结果。 能自主选择分类顺序进行逐层分类并描述过程。				掌握 应用	二 探究建构 扣子"分类标 准" (SOLO: 多点结构 -> 关联结构)	活动1:发现特征(单点结构) 1. 引导学生观察扣子特征:"这些扣子哪里不一样?" 2. 学生发现颜色、形状、扣眼数量特征。(教师板贴) SOLO 目标:使学生进入能识别与分类相关的单点结构思维层面,为后续分类活动积累特征认知基础。 活动2:单一标准分类(单点结构——多点结构) 1. 学生选择一种标准在希沃白板中操作演示。	设计意图: 遵循"发现属性-应用标准-对比归纳"的路径,让学生亲历思维从单一到多元再到关联的飞跃。 评价关注点: 1. 能否多角度发现特征
三、调 课题 教学 目标		学与作业设计 分类							
重点难点素养	难点	重点: 能根据事物的特征制订分类标准,初步学会依据标准对事物进行分类。 推点: 能用语言简单描述分类的过程。 数据意识、应用意识						2. 指导记录方法:填写分类标准、类别、数量。 3. 教师强调规范语言:"我按(标准)分,分成了(类别)和(类别)。"	记录 3. 能否理解标准与 果的因果关系
表现	3,7,1,1	分类 分类要依据分类的标准 标准不同───结果不同						SOLO 目标:助力学生从聚焦单一分类标准的单点结构,向 关注分类标准与结果等多要素的多点结构思维过渡,初步建 立单一标准分类的完整认知。	

Macro concepts: Causation; Subject-specific Concepts: Classification, Division



Approaches to teaching



Based on inquiry

A strong emphasis is placed on students finding their own information and constructing their own **understandings**.

Focused on conceptual understanding

Concepts are explored in order to both deepen disciplinary understandings and to help students make **connections** and **transfer** learning to new contexts.

Developed in local and global contexts

Teaching uses real-life **contexts** and examples, and students are encouraged to process new information by **connecting** it to their own experiences and to the world around them.

Focused on effective teamwork and collaboration

This includes promoting teamwork and collaboration between students, but it also refers to the **collaborative** relationship between teachers and students.

Designed to remove barriers to learning

Teaching is **inclusive** and values **diversity**. It affirms students' identities and aims to create learning opportunities that enable every student to develop and pursue appropriate **personal goals**.

Informed by assessment

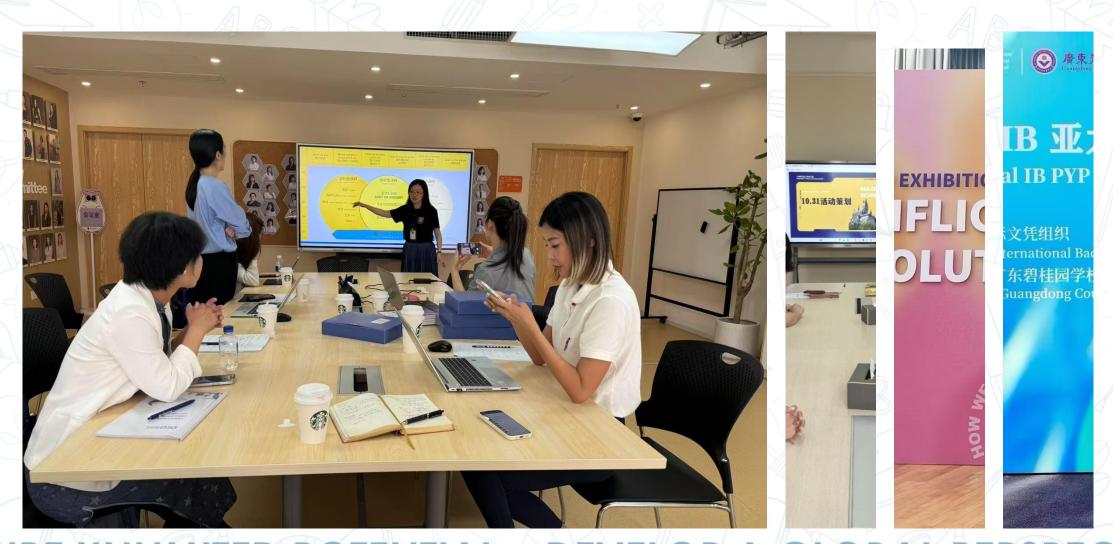
Assessment plays a crucial role in supporting, as well as measuring, learning. This approach also recognizes the crucial role of providing students with **effective** feedback.



What do we do to make it happen?



















慶 康 Guangdon

al IB PYP

文凭组织

uangdong C















Teachers co-design curriculum







Student Connections





Kindergarten and Primary School Connection: House Rubik's Cube Gift on the first day of school



Student Connections











The K3 students visited the primary school as part of the "Growth and Change" unit, interacting with G2 students to learn about the differences between kindergarten and primary school.

INSPIRE UNLIMITED POTENTIAL

DEVELOP A GLOBAL PERSPECTIVE



Student Connections



G1 students visited the youngest siblings of the Vanke Bilingual K12 Family in the first Community















In order to make it happen, the most important element lies on teachers



PD to Empower Teachers



Concept-Based Inquiry Workshop













Culture building on campus







































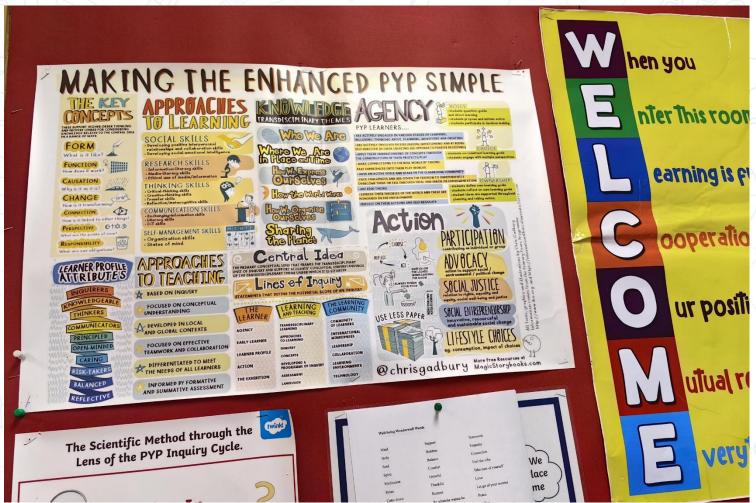






















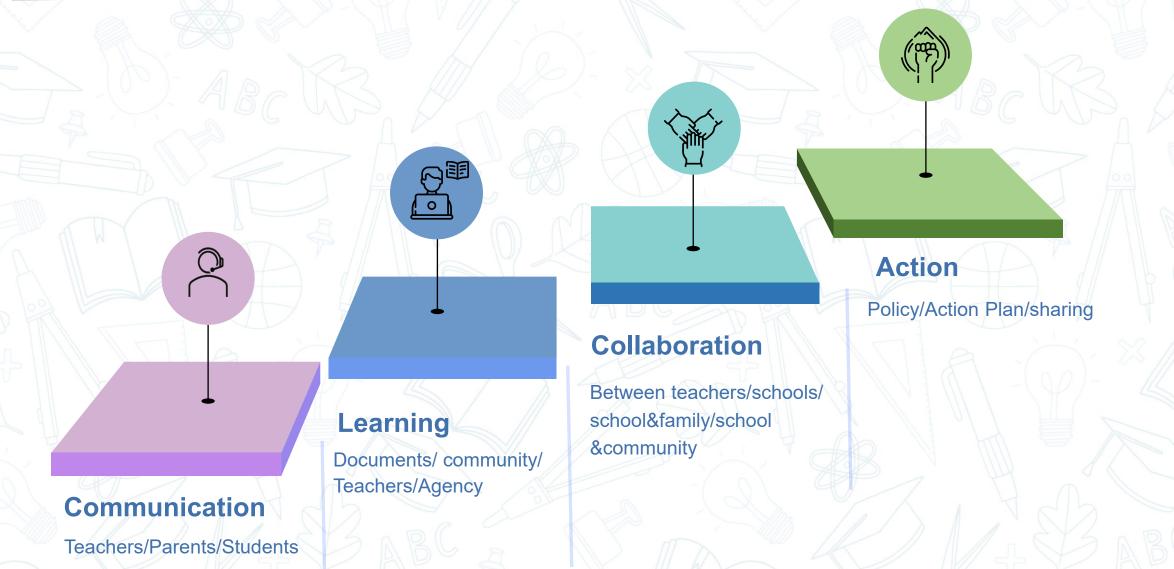






Building NEW culture- organization





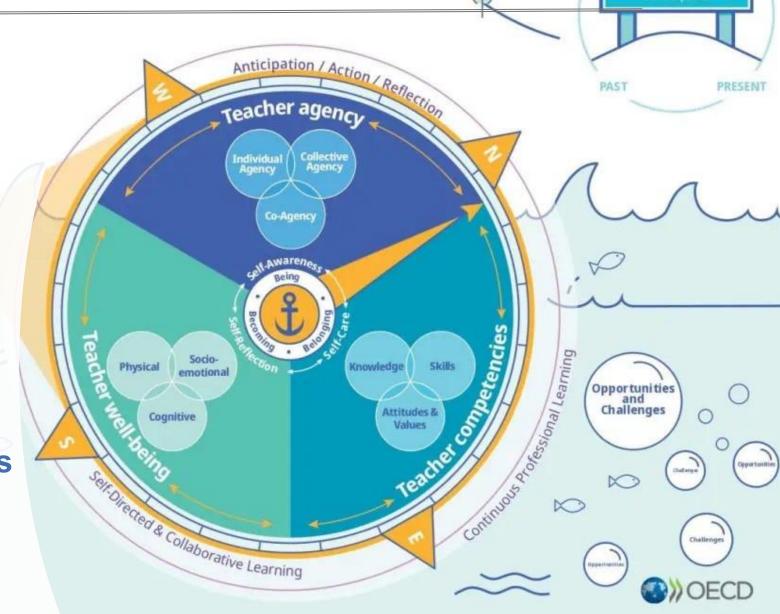
Well-being 2040 Individuals, society and the planet

Future Teacher:

· Agency, Wellbeing,

Competencies

- Being, becoming, belonging
- Opportunities and challenges





Concept-based learning is not a myth, it is there every day. What we need to do is to build the conceptual thinking on students and teachers.





Tuando



Agnes Cheng WeChat



VKBS Official Account