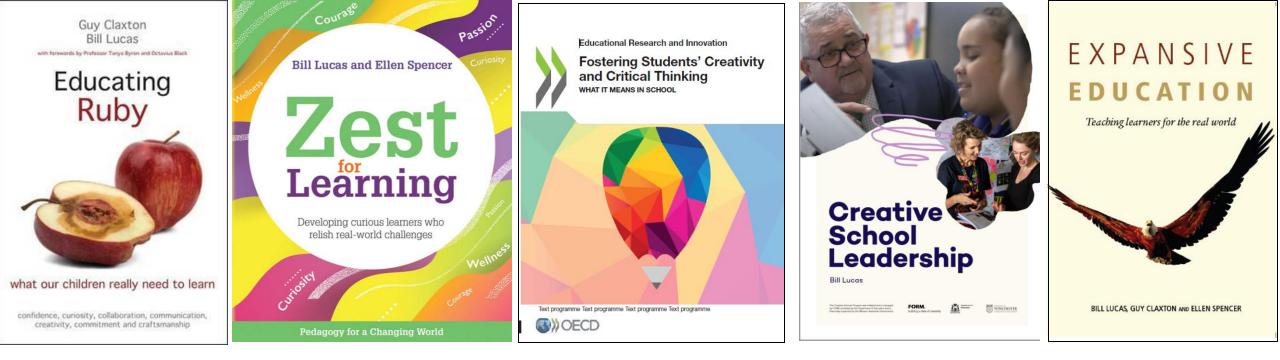
Putting creative thinking at the heart of schools - what creativity is, how to cultivate it and how to assess it

Professor Bill Lucas @LucasLearn #CreativityExchange

Centre for Real-World Learning,







Warm-Up 1 **Explore Creativity and Creative Thinking**







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STEP

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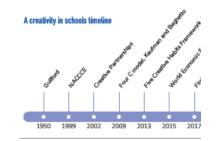
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Purpose

In order to focus on developing the creativity of children and young people in schools, it's essential to have a shared understanding of what it means to be creative. This activity provides a summary of the long history of creativity research in relation to education. You'll learn about the degree to which there's consensus on the meaning of creativity and what it entails. You'll also be presented with a helpful framework for understanding the habits of a creative thinker. This key reading is aimed at creative leaders and others at all levels of the organisation.

- Resources and setting up Resource 1: Five Creative Habits Framework
- Resource 2: Descriptions of the Creative Habits



10 Warm-Up 1 Explore Creativity and Creative Thinking



Activity 2 Find the Creative You

Exploring & investigating

Purpose

creative habits.

Getting going

STEP 1 5 minutes

on the paper.

Working in pairs, draw around each other's bodies

This activity might develop your creative habit of being ...

Cooperatin appropriate Giving & receivin feedback Sharing the product

Resources and se

Reflectin

Myths surrounding creativity and educators' Large sheets of j perceptions about their own capacity to be together - large creative can be a common barrier when have an outline (considering broader pedagogical approaches. This activity aims to highlight your existing strengths, skills, knowledge, experiences and qualities and

explore how they might complement the five Habits

> they don't know regularly

 This activity ass Understand the

STEP 2 15 minutes

development needs.



Activity



This activity might develop your creative habit of being



feedback

appropriately Giving & receiving

Making connections Using intuition

Purpose

Challenging assumptions

७

4.6.....

Activity 3

It's essential to develop a shared understanding of what creativity is. This activity helps you to explore the creative habits and their sub-habits using the Five Creative Habits Framework. It can also be easily adapted to fit with your own definition. It helps people to investigate and develop a shared understanding of what creativity is and to examine their own creative habits, including their strengths and potential



Resources and setting up

- Resource 1: Five Creative Habits Framework
- Resource 3: Creativity Habits Web Template (one for each person)
- Resource 4: Creative Individuals Are ... (one of these sheets for each proup of four or five) Each sheet includes one creative habit and its three sub-habits
- · Felt pen or marker pen (one for each person)
- · Rolls of different-coloured electrical tape (one roll for each person)
- · Masking tape (one roll for each small group of four or fivel
- · Scissors (two pairs for each small group)
- Refer to the image and set up the creativity webs on the floor in advance of the activity. Use:
- · The masking tape to create the creativity webs on the floor.
- · A marker pen (to write 1, 2, 3, 4 and 5 on each axis with 1 being closest to the centre and 5 at the outside).
- · The five sheets from Resource 4 that detail the sub-habits for each creative habit. One of the five creative habits is placed at the end of each axis of the web, using Resource 3 to ensure they're placed in the correct order.

Place a set of coloured tape and two pairs of scissors near each creativity web.

A LEADERSHIP

PLAYBOOK

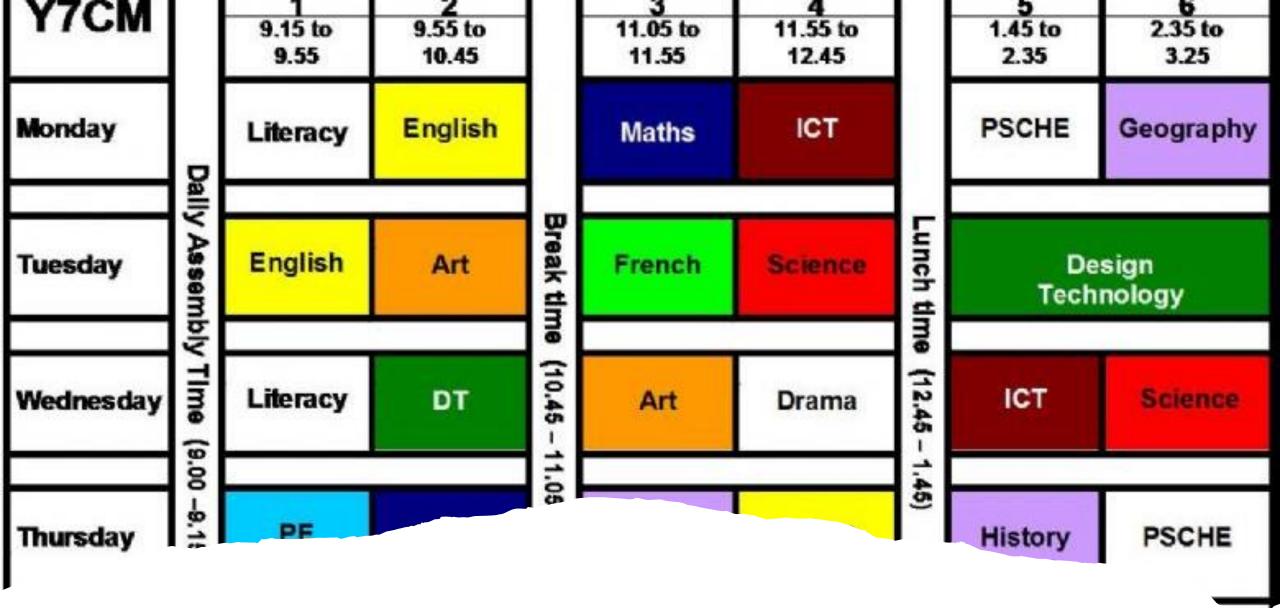
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CREATIVE

IN SCHOOLS

THINKIN

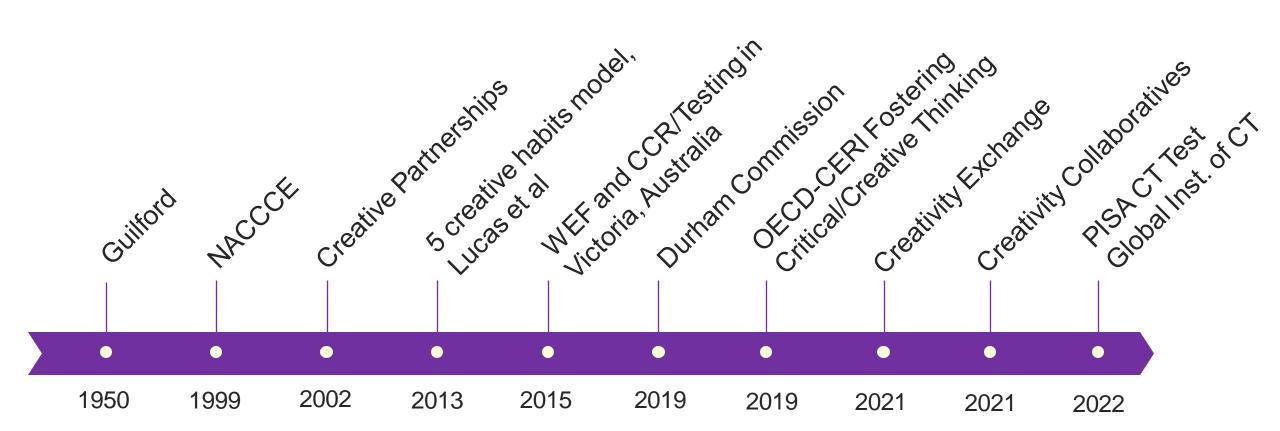




Creativity on the timetable?



A creativity in schools timeline



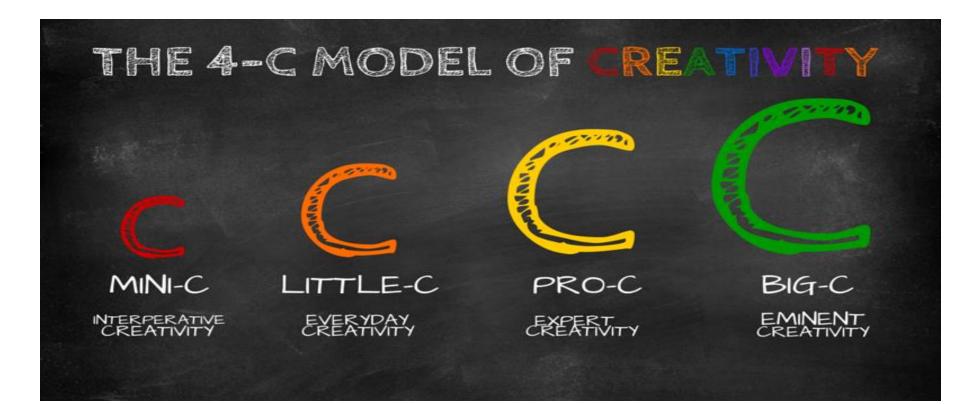


'Imaginative activity fashioned so as to produce outcomes that are both original and of value.'

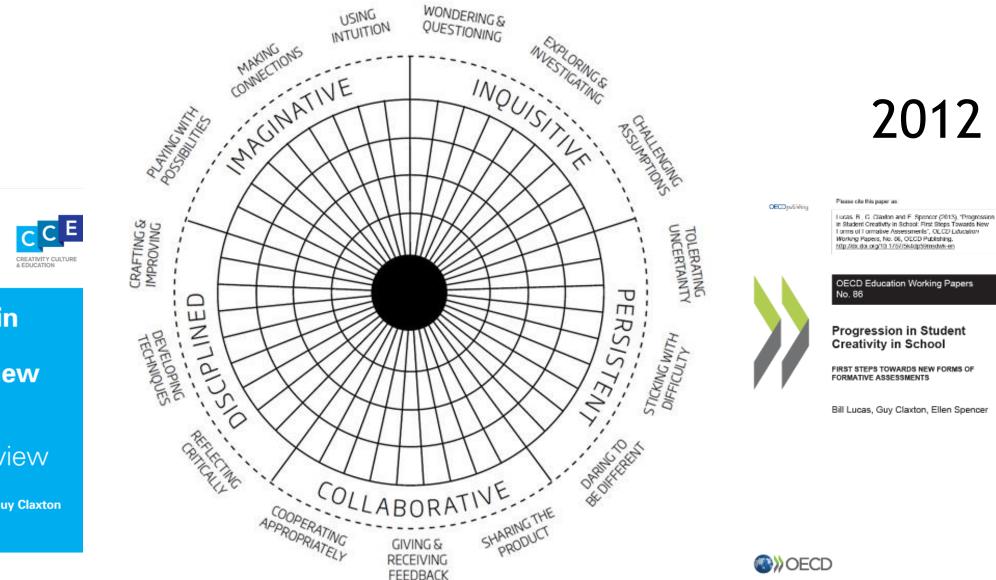
1999

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UK National Advisory Committee on Creative and Cultural Education



Our model of creativity



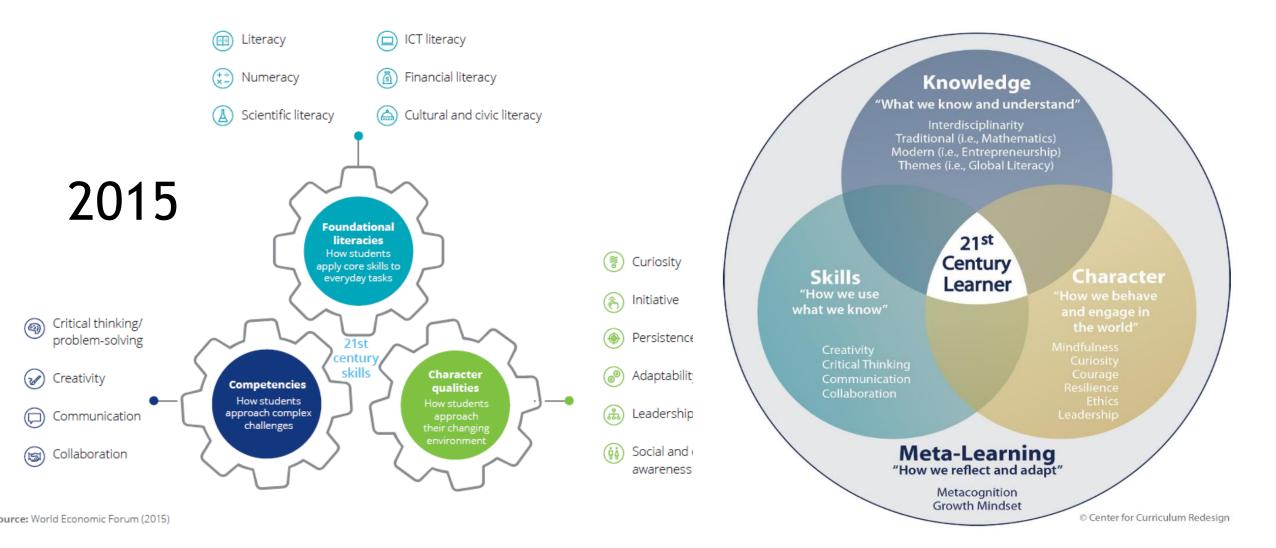
Creativity, Culture and Education Series

Progression in Creativity – developing new forms of assessment: a literature review

Ellen Spencer, Bill Lucas & Guy Claxton May 2012

World Economic Forum

Center for Curriculum Redesign



THE AGE **WORLD FIRST** CREATIVE THRKING TESTSFOR VCTORAN STUDENTS

ESTIONS TO SEE IF THEY HAVE THE KILLS TO PREPARE THEM FOR LIFE. NEWS

A WORLD FIRST, VICTORIA IS STING STUDENTS WITH TOP-SECRET

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RY 3, 2018

CAN YOUR CHILD ANSWER THIS CURLY QUESTION TAKE THE TEST ON PA

DURHAM COMMISSION DEFINITIONS

Durham Commission on Creativity and Education

Course MGLANS EDurham University **Creativity:** The capacity to imagine, conceive, express, or make something that was not there before.

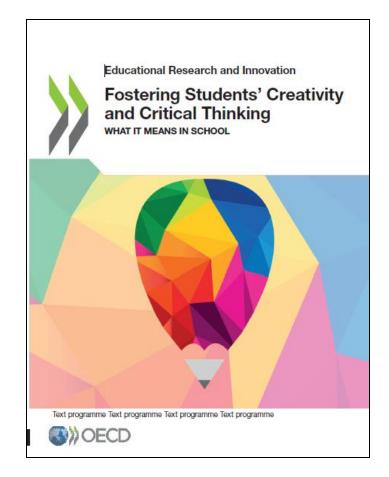
Creative thinking: A process through which knowledge, intuition and skills are applied to imagine, express or make something novel or individual in its contexts. Creative thinking is present in all areas of life. It may appear spontaneous, but it can be underpinned by perseverance, experimentation, critical thinking and collaboration.

Teaching for creativity: Explicitly using pedagogies and practices that cultivate creativity in young people.

2019

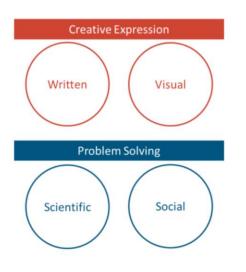
Researching students' creativity

- Creativity and critical thinking can be learnt and assessed in all subjects
- We need to be intentional and thus clear about what we try to achieve: rubrics help clarify
- Teachers need support: professional learning opportunities and scaffolding (resources, examples, peer learning, etc.)
- It is not easy, it takes time, but it is feasible and real teachers in real-life settings have already done it
- There are many different ways to do it (and just starting to move the needle is an important step)



2019

Figure 2. Proposed focus domains for the assessment





'Creative Thinking in PISA 2022 is defined as the competence to engage productively in the generation, evaluation and improvement of ideas, that can result in original and effective solutions, advances in knowledge and impactful expressions of imagination.'

OECD Directorate for Education and Skills, PISA 2022 Creative Thinking



PISA 2021 CREATIVE THINKING FRAMEWORK (THIRD DRAFT)

April 2019

OECD member countries and Associates decided to postpone the PISA 2021 assessment to 2022 to reflect post-Covid difficulties. This draft vision was created before the crisis. The final version will reflect the new name of the cycle "PISA 2022".

Snapshots of progress

Curricula Culture, Professional The status Assessment of creative curriculum learning Creative thinking Significant progress thinking design and is increasingly has been made in There is a growing specified in the last decade pedagogies recognition of the Creative thinking is curricula across the in understanding complexity and increasingly valued There is a growing world. how to evidence scale of changes in school systems the development consensus on the needed at system A small but across the world. school cultures of creative thinking and school level. growing number needed to embed with clear learning There is a growing of educational We are only continua being creative thinking. consensus on some iurisdictions are now beginning developed and new robust definitions providing strategic There is a to understand methods used. and a small number leadership, clear recognition that the nature of of practical models guidance and schools may need The PISA 2022 the professional in use across the programmes of to re-design aspect Creative Thinking development world. support to embed of their timetable Test creates and professional creative thinking in to create longer an impetus for learning every subject of the blocks of time with increased use of communities curriculum. opportunities for many methods of needed by school interdisciplinary assessment from Still only a minority leaders and 2024 onwards learning. of jurisdictions teachers to make when its results significant progress

There is an

understanding

pedagogies for

creative thinking

that can work in

curriculum.

every subject of the

Many schools find that accountability

pressures can be

counter-productive

in enabling creative

thinking to flourish.

of a range of

emerging

are announced.

teachers to use a

range of formative

approaches in the

encouraging

classroom.

in embedding

creative thinking.

Currently there is a

huge unmet need

pre- and in-service

for high-guality

training for

teachers.

prioritise creative

thinking in schools.

GLOBAL INSTITUTE CREATIVE THINKING

2022



Creative thinking in schools across the world A snapshot of progress in 2022 **BILL LUCAS**



International National State School





Creative thinking in schools across the world

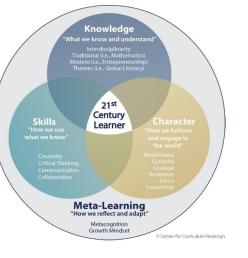
A snapshot of progress in 2022

BILL LUCAS



	Competency	Inclusion	Identification	Progression	Pedagogy	Assessment
kills	Creativity	21	12	5	0	0
	Critical thinking	21	11	6	0	0
Xi	Communication	22	ii	5	Û	Û
	Collaboration	21	10	6	0	0
	Mindfulness	17	10	5	0	0
	Curiosity	17	7	3	0	0
acter	Courage	9	5	5	0	0
Character	Resilience	15	8	6	0	0
	Ethics	18	10	4	0	0
	Leadership	10	7	4	0	0
Meta- learning	Metacognition	14	7	5	0	0
	Growth mindset	14	6	5	0	0

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BROOKINGS

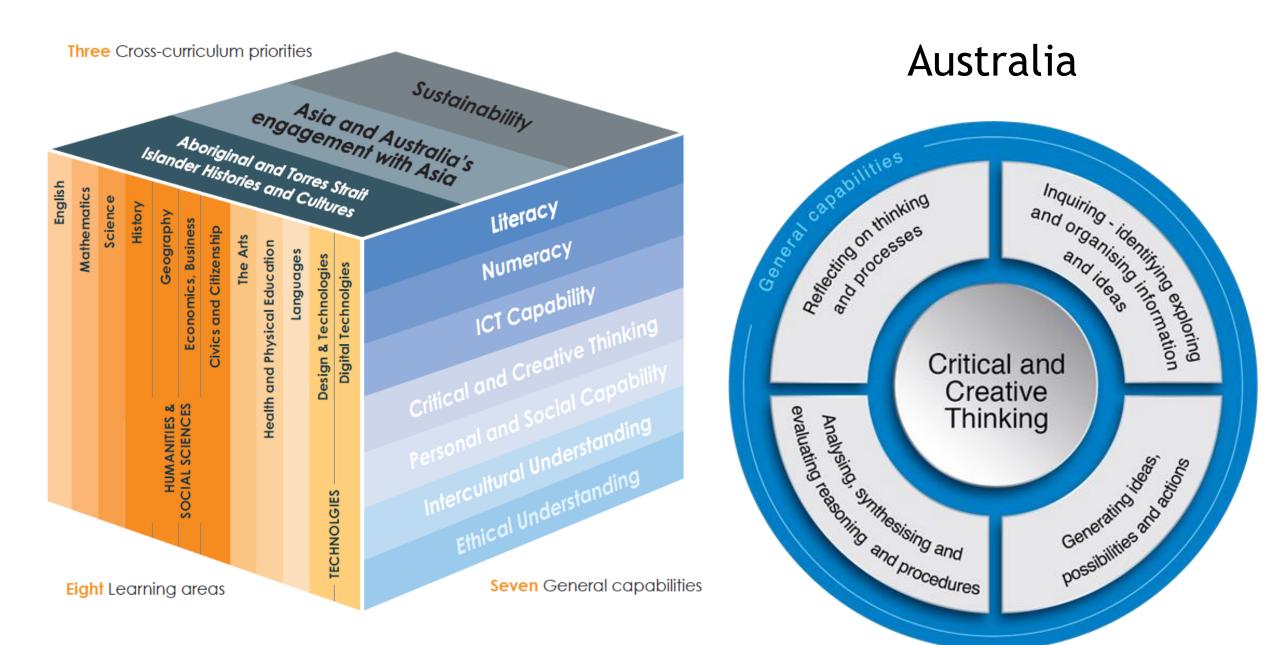
Competencies for the 21st century

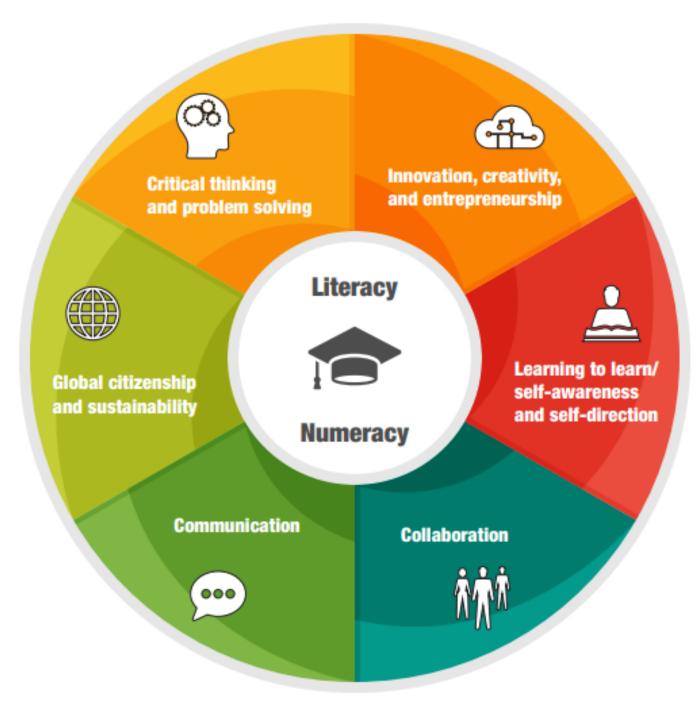
Jurisdictional progress

Robert Taylor Charles Fadel Helyn Kim Esther Care

BRIEF

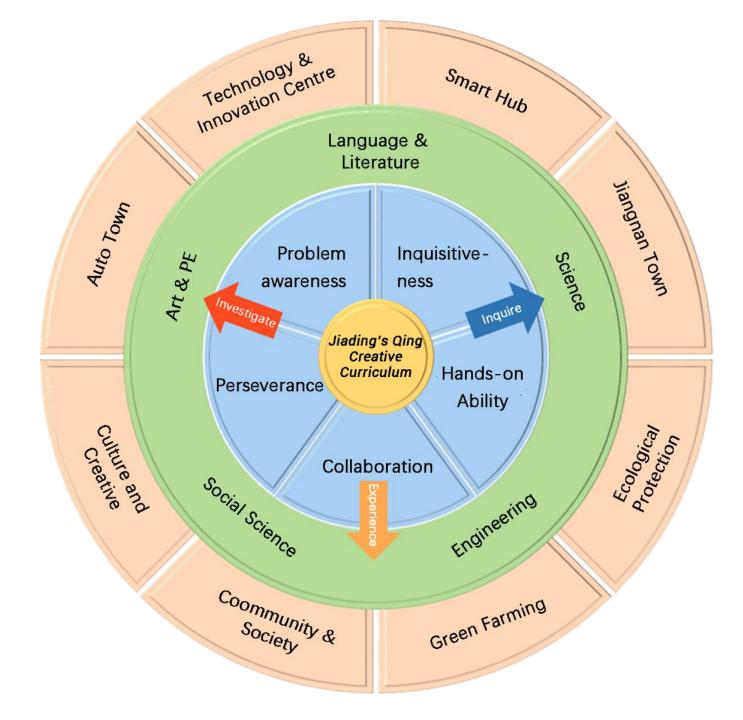
October 2020





Canada

China



Alberta, Canada

Competencies and Current Programs of Study

MATHEMATICS

Competencies are combinations of attitudes, skills and knowledge that students develop and apply for successful learning, living and working. In school, competencies help students achieve learning outcomes and transfer their learning to new situations. Alberta's curriculum promotes the development of eight competencies, which are a streamlined expression of the competencies identified in the Ministerial Order on Student Learning (#001/2013). The following are examples that describe how competencies may be expressed within the context of Alberta's current Kindergarten to Grade 12 Mathematics programs of study.

CRITICAL THINKING in mathematics involves using reasoning to synthesize or evaluate mathematical ideas. Students:

- make mathematical statements about patterns or relationships;
- apply criteria to analyze or validate mathematical processes, solutions or claims;
- use inductive reasoning to generalize patterns or connections;
- use deductive reasoning and/or logic to check or justify mathematical arguments; and
- investigate the impact of assumptions on mathematical processes, solutions or conclusions.

MANAGING INFORMATION in mathematics

involves collecting, processing and representing mathematical information and ideas. Students:

- collect pertinent information to make sense of mathematical ideas in a variety of contexts;
- organize or manipulate data to determine mathematical patterns;
- use appropriate tools to represent, model or share mathematical information or ideas; and
- value the role of mathematical representations to reliably depict or verify situations and/or patterns.

- **PROBLEM SOLVING** in mathematics involves using mathematical processes or strategies to generate solutions or to support decision-making. Students:
- apply prior knowledge or experience to identify mathematical problems;
- draw upon known mathematical concepts to develop strategies to solve unfamiliar problems;
- accept that mathematical problems may lead to multiple solutions;
- recognize situations where there are no solutions and
- demonstrate flexibility, persistence and a willingness to take risks to try different mathematical approaches to solving problems.

CREATIVITY AND INNOVATION in mathematic involves using flexible thinking and approaches to connect or extend mathematical ideas in new ways. Students:

- explore mathematical ideas or relationships by creating concrete, pictorial or symbolic models;
- make new connections between mathematical concepts;
- create models to describe mathematical ideas or patterns; and
- take risks and think flexibly to play with different mathematical concepts and processes.

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Victoria, Australia



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Critical and Creative Thinking: Foundation – Level 10



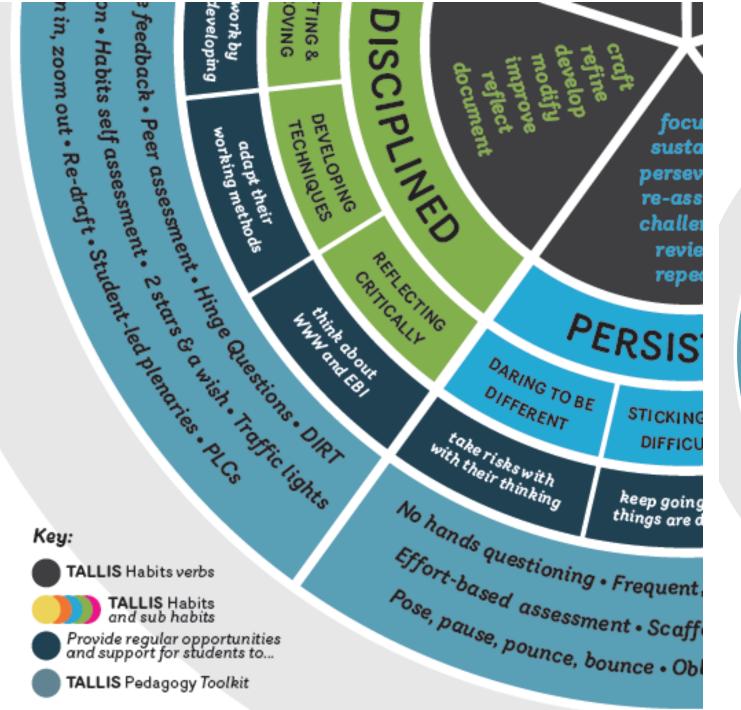
Foundation-10	Foundation-10		Critical and Creative Thinking: Foundation – Le		
Foundation to Level 2	Levels 3 and 4	Levels 5 and 6	Levels 7 and 8	Levels 9 and 10	
Questions and Possibilities					
Identify, describe and use different kinds of question stems to gather information and ideas	Construct and use open and closed questions for different purposes	Examine how different kinds of questions can be used to identify and clarify information, ideas and possibilities	Consider how to approach and use questions that have different elements, including factual, temporal and conceptual elements	Investigate the characteristics of effective questions in different contexts to examine information and test possibilities	
Consider personal reactions to situations or problems and how these reactions may influence thinking	Explore reactions to a given situation or problem and consider the effect of pre-established preferences	Experiment with alternative ideas and actions by setting preconceptions to one side	Suspend judgements temporarily and consider how preconceptions may limit ideas and alternatives	Suspend judgements to allow new possibilities to emerge and investigate how this can broaden ideas and solutions	
Make simple modifications to known ideas and routine solutions to generate some different ideas and possibilities	Investigate different techniques to sort facts and extend known ideas to generate novel and imaginative ideas	Identify and form links and patterns from multiple information sources to generate non-routine ideas and possibilities	Synthesise information from multiple sources and use lateral thinking techniques to draw parallels between known and new solutions and ideas when creating original proposals and artefacts	Challenge previously held assumptions and create new links, proposals and artefacts by investigating ideas that provoke shifts in perspectives and cross boundaries to generate ideas and solutions	
Reasoning					
Examine words that show reasons and words that show conclusions	Examine and use the structure of a basic argument, with an aim, reasons and conclusion to present a point of view	Investigate common reasoning errors including contradiction and inconsistency, and the influence of context	Examine common reasoning errors including circular arguments and cause and effect fallacies	Examine a range of rhetorical devices and reasoning errors, including false dichotomies and begging the question	
Compare and contrast information and ideas in own and others reasoning	Distinguish between main and peripheral ideas in own and others information and points of view	Consider the importance of giving reasons and evidence and how the strength of these can be evaluated	Investigate the difference between a description, an explanation and a correlation and scepticism about cause and effect	Examine how to identify and analyse suppressed premises and assumptions	
Consider how reasons and examples are used to support a point of view and illustrate meaning	Investigate why and when the consequences of a point of view should be considered	Consider when analogies might be used in expressing a point of view and how they should be expressed and evaluated	Investigate when counter examples might be used in expressing a point of view	Investigate the nature and use of counter examples structured as arguments	
	Identify and use 'If, then' and 'what if' reasoning	Examine the difference between valid and sound arguments and between inductive and deductive reasoning, and their degrees of certainty	Consider how to settle matters of fact and matters of value and the degree of confidence in the conclusions	Consider ambiguity and equivocation and how they affect the strength of arguments	
	Explore distinctions when organising and sorting information and ideas from a range of sources	Explore what a criterion is, different kinds of criteria, and how to select appropriate criteria for the purposes of filtering information and ideas	Examine how to select appropriate criteria and how criteria are used in clarifying and challenging arguments and ideas	Investigate use of additional or refined criteria when application of original criteria does not produce a clear conclusion	
Meta-Cognition					
Consider ways to express and describe thinking activity, including the expression of feelings about learning, both to others and self	Consider concrete and pictorial models to facilitate thinking, including a range of visualisation strategies	Investigate thinking processes using visual models and language strategies	Consider a range of strategies to represent ideas and explain and justify thinking processes to others	Critically examine their own and others thinking processes and discuss factors that influence thinking, including cognitive biases	
Explore some learning strategies, including planning, repetition, rewording, memorisation, and use of mnemonics	Examine an increased range of learning strategies, including visualisation, note-taking, peer instruction and incubation, and reflect on how these can be applied to different tasks to reach a goal	Examine learning strategies, including constructing analogies, visualising ideas, summarising and paraphrasing information and reflect on the application of these strategies in different situations	Examine a range of learning strategies and how to select strategies that best meet the requirements of a task	Investigate how the use of a range of learning strategies can be monitored, evaluated and re-directed as necessary	
Investigate ways to problem-solve, using egocentric and experiential language	Investigate a range of problem-solving strategies, including brainstorming, identifying, comparing and selecting options, and developing and testing hypotheses	Investigate how ideas and problems can be disaggregated into smaller elements or ideas, how criteria can be used to identify gaps in existing knowledge, and assess and test ideas and proposals	Consider how problems can be segmented into discrete stages, new knowledge synthesised during problem-solving and criteria used to assess emerging ideas and proposals	Investigate the kind of criteria that can be used to rationally evaluate the quality of ideas and proposals, including the qualities of viability and workability	

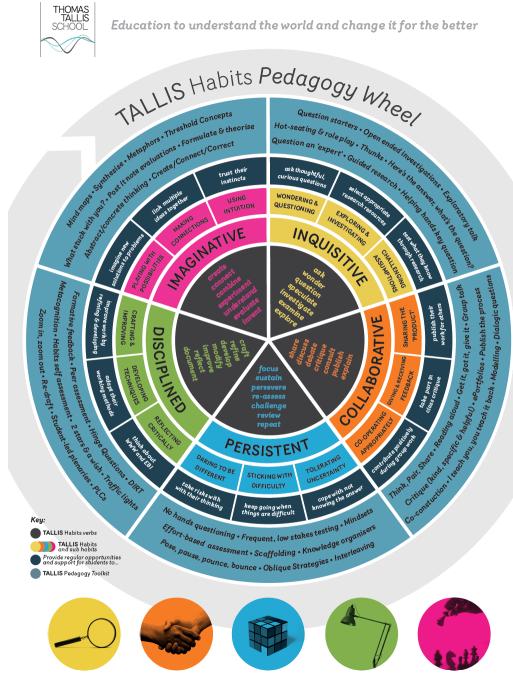
Western Australia

five habits

ROALD





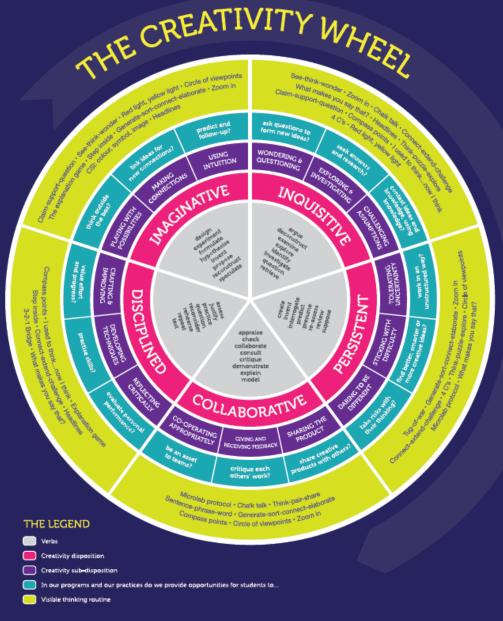


The TALLIS Habits are based on Lucas, Spencer, and Claxton (2013) Progression in Student Creativity in School OECD Publishing.

Sydney, Australia









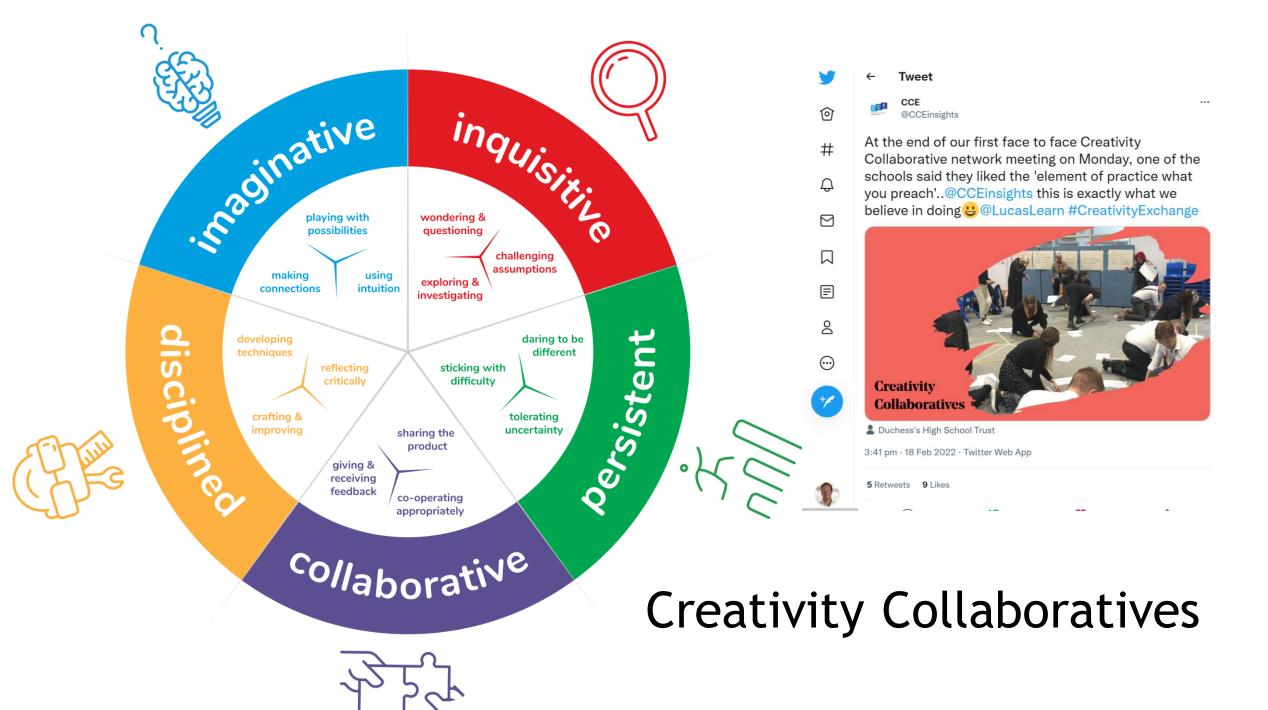


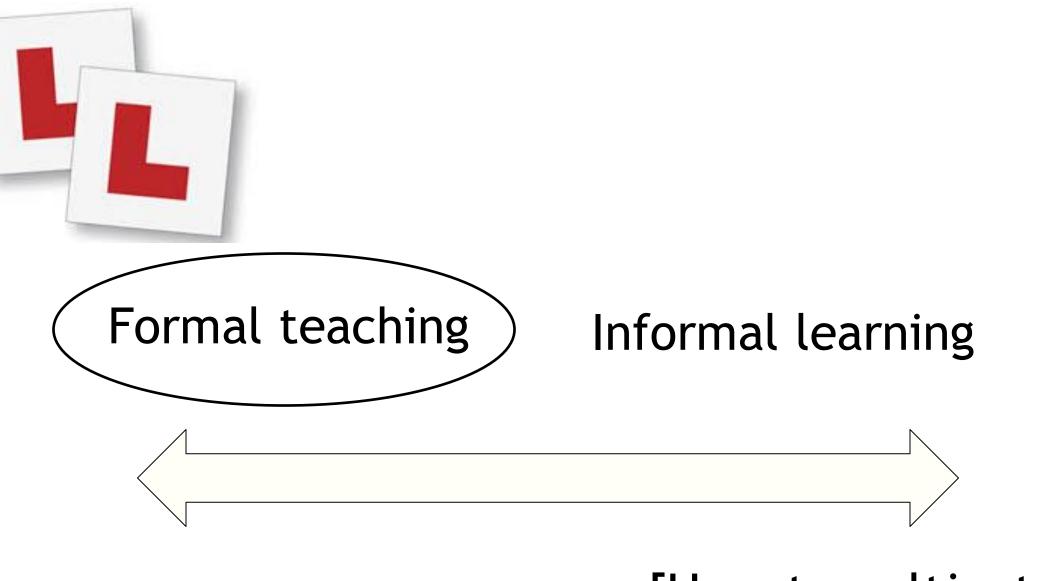


Creativity Exchange is a space for school leaders, teachers, those working in cultural organisations, scientists, researchers and parents to share ideas about how to teach for creativity and develop young people's creativity at and beyond school.

JOIN THE CONVERSATION

Foll	ow the hashtag on twitter #CreativityExchange
	Professor Bill Lucas @LucasLearn · Jan 3 2023 - a focus on creativity in English schools with #PISA2022, new research and innovative teachers https://t.co/icEnmPvN3b
	twitter.com





[How to cultivate it]

Curricula

Creative thinking is increasingly specified in curricula across the world.

A small but growing number of educational jurisdictions are providing strategic leadership, clear guidance and programmes of support to embed creative thinking in every subject of the curriculum.

Still only a minority of jurisdictions prioritise creative thinking in schools. Creative thinking is not a magic power, though, it can be learned and it can be taught. Every individual, to a greater or smaller degree, has the potential to think creatively. It is therefore unsurprising that school curricula around the world seek to give creativity greater emphasis, both within and across subject disciplines.

Andreas Schleicher



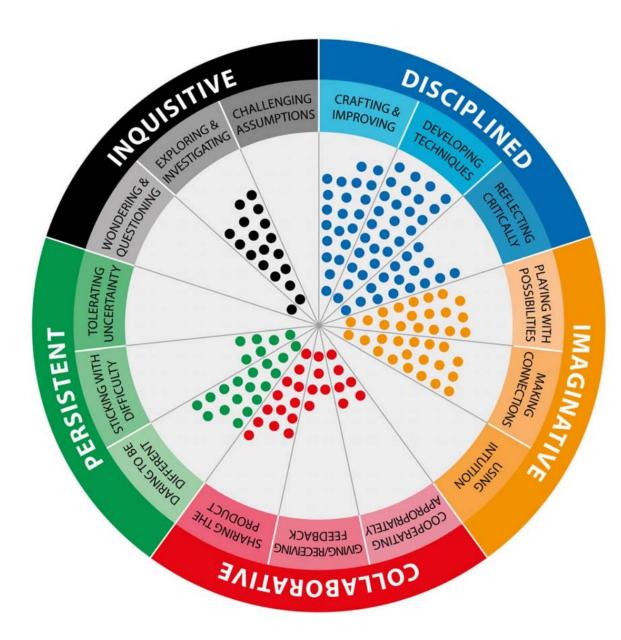
Creative thinking

in schools across the world

A snapshot of progress in 2022

BILL LUCAS











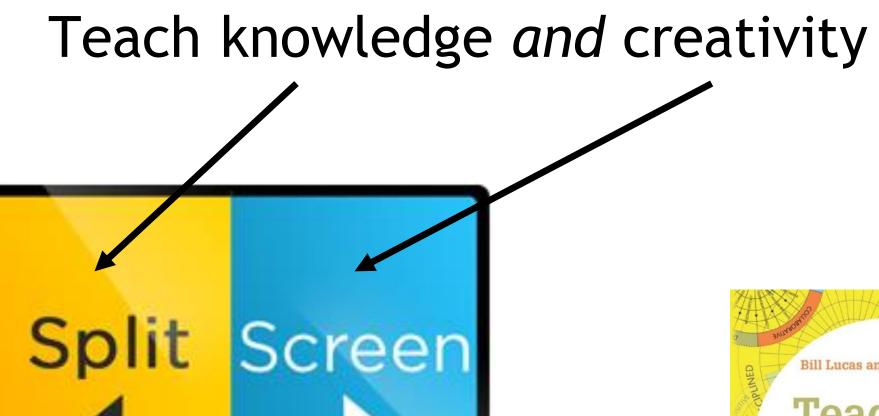


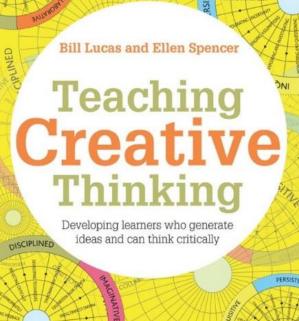
Create the culture

- 1. Learning almost always framed by engaging questions which have no one right answer
- 2. Space for activities which are curious, authentic, extended in length, sometimes beyond school, collaborative and reflective
- 3. The opportunity for play and experimentation
- 4. Opportunity for generative thought, where ideas are greeted openly
- 5. Opportunity for critical reflection in a supportive environment
- 6. Respect for difference and the creativity of others
- 7. Makes creative processes visible and valued
- 8. Actively engages students as co-designers
- 9. Integrates a range of assessment practices within teaching

10. Leaves space for the unexpected

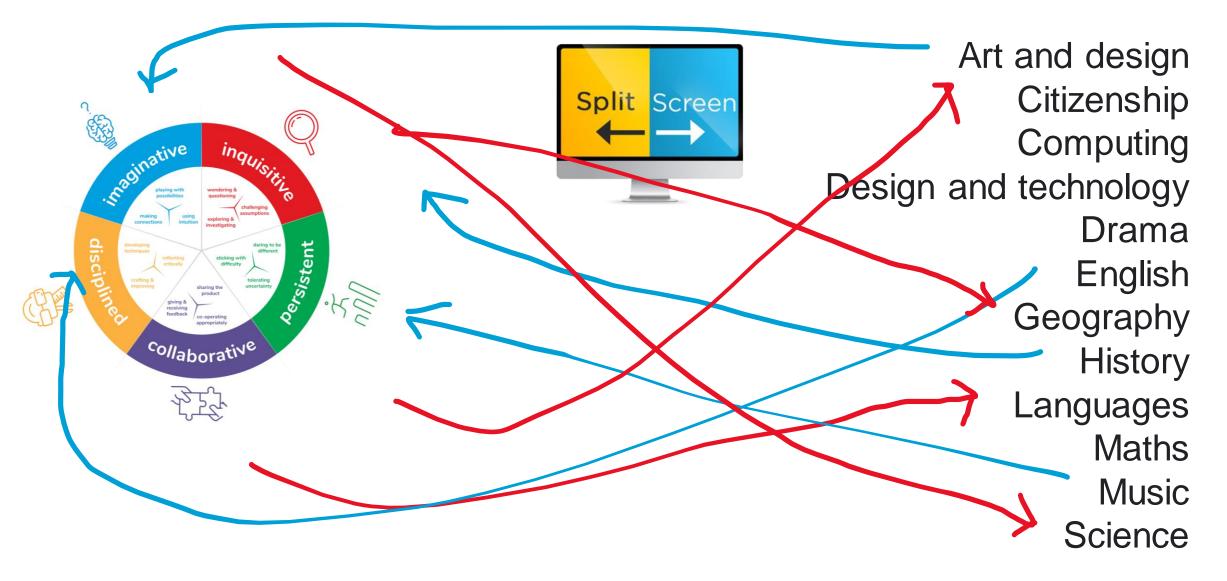






Pedagogy for a Changing World

Creative thinking in every subject



Competencies and Current Programs of Study SCIENCE

Competencies are combinations of attitudes, skills and knowledge that stud for successful learning, living and working. In school, competencies help stu outcomes and transfer their learning to new situations. Alberta's curriculum of eight competencies, which are a streamlined expression of the competer Ministerial Order on Student Learning (#001/2013). The following are examp competencies may be expressed within the context of Alberta's current Kinc Science programs of study.

CRITICAL THINKING in science involves using reasoning to question and test ideas, build understanding and develop scientific literacy. Students:

- use relevant criteria to evaluate scientific data, claims, theories or statements;
- reason inductively and deductively to form and test hypotheses, categorize data or draw conclusions;
- investigate the impact of assumptions and uncertainty when testing or interpreting hypotheses, generalizations and theories; and
- apply scientific information with objectivity or fair-mindedness to make judgements or draw conclusions.

MANAGING INFORMATION in science involves accessing, collecting, processing and validating information to develop, confirm or apply scientific knowledge. Students:

- carry out procedures to accurately and efficiently collect data or acquire scientific information;
- synthesize and present data or information for effective and consistent interpretation;
- use appropriate conventions to reference scientific data or information;
- report scientific data or information with objectivity and honesty; and
- respect how the integrity and reliability of evidence is critical to the validation of scientific claims.

PROBLEM SOLVIN developing and apply knowledge or techno Students:

- design, evaluate an scientific inquiry to a world;
- select appropriate to and analyze data and
- appreciate that scie problems can be ap perspectives to yiel
- employ a variety of problems with flexib

CREATIVITY AND I

involves exploring ma to generate new scie processes. Students:

- recognize how new infuence, and are ir knowledge and tecł
- demonstrate ingenu designing or adapti devices for a specifi
- identify and evaluat scientific information and
- are curious, inventivabout the world.

CREATIVITY AND INNOVATION in science

involves exploring materials, ideas or resources to generate new scientific ideas, products or processes. Students:

- recognize how new ideas or discoveries infuence, and are influcenced by, scientific knowledge and technologies;
- demonstrate ingenuity and resourcefulness when designing or adapting investigations, models or devices for a specific purpose;
- identify and evaluate potential applications of scientific information, discoveries or technologies; and
- are curious, inventive and open to new ideas about the world.





Make creative thinking visible

V ГНІ N К I N G



Visible Thinking in Action

Getting Started

Thinking Routines

Introduction

Core Routines

Understanding Routines

Fairness Routines

Truth Routines

Creativity Routines

Thinking Ideals

School-Wide

Culture of Thinking

VT Network

What's New

Core Routines

The core routines are a set of seven or so routines that target different types of thinking from across the modules. These routines are easy to get started with and are commonly found in Visible Thinking teachers' toolkits. Try getting started with with one of these routines.

What Makes You Say That? Interpretation with justification routine

Think Puzzle Explore A routine that sets the stage for deeper inquiry

Think Pair Share A routine for active reasoning and explanation

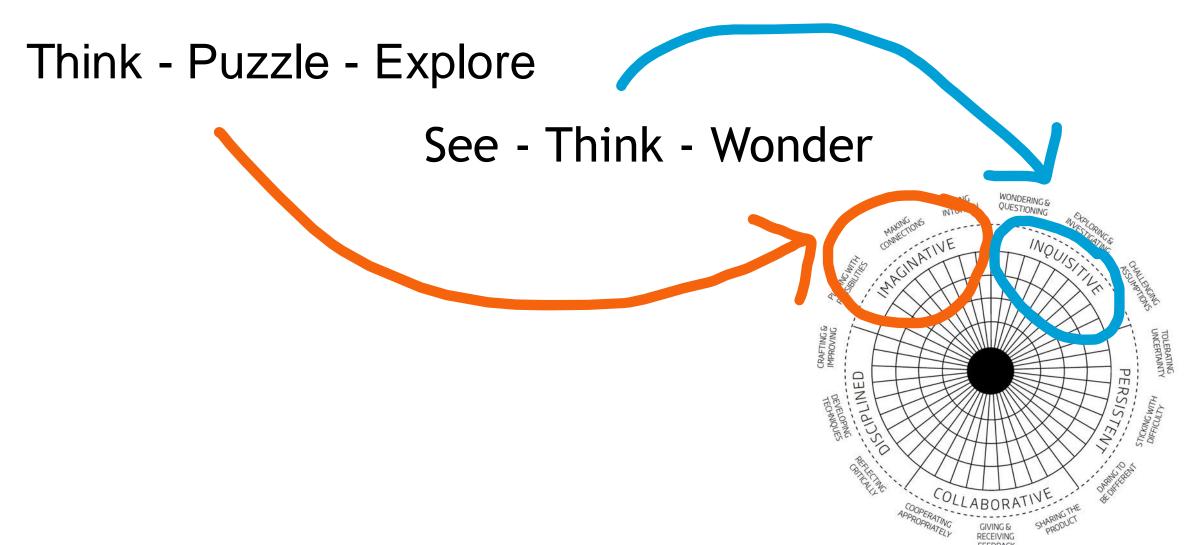
Circle of Viewpoints A routine for exploring diverse perspectives

<u>I used to Think...</u> Now I think... A routine for reflecting on how and why our thinking has changed

<u>See Think Wonder</u> A routine for exploring works of art and other interesting things

Compass Points A routine for examining propositions





SECTION TWO Making the Five Habits visible and tangible



Decoding the 'big' words and putting those words and their alternatives to ideas is powerful; but making ideas into things that students can see and touch is a wonderful way of making the five habits come alive. Here are some ideas for making that happen.



MAKING IT VISIBLE AND TANGIBLE

Year One

Ideas developed by creative practitioner Claire Davenhall at Ellenbrook Christian College

1. Threading together and measuring the habits

Call out the names and count the colours of the five habits. Get the students to make clay beads with their hands, rolling them into small round smooth spheres and pushing bamboo skewers through them to make holes. It's great if students focus (persistence and discipline) and are given time to develop ways to craft and improve the beads so they're around the same size and shape. Get the students to colour the beads in each of the five creative habits colours (red/orange, green, navy, yellow and purple) by dipping them into watered-down acrylic paint. Give each student a jar to personalise. At the end of each week, students add their beads to these jars, according to the relevant colour/habit. It means they can track their learning and make it visible in the classroom.

Claire says:

Everyone made at least eight beads, but some had made 12, others 16, and some had made 20. We talked about how some people had rushed them and had to go back and fix them up when they went wonky; how some people had taken their time to perfect the shape; and how some people had found it challenging, but that as a group everyone had made enough beads to paint them the following week. The children loved how the paint felt on their hands, and they worked collaboratively. It was interesting to hear the Year One children using such big words like collaborative and inquisitive.

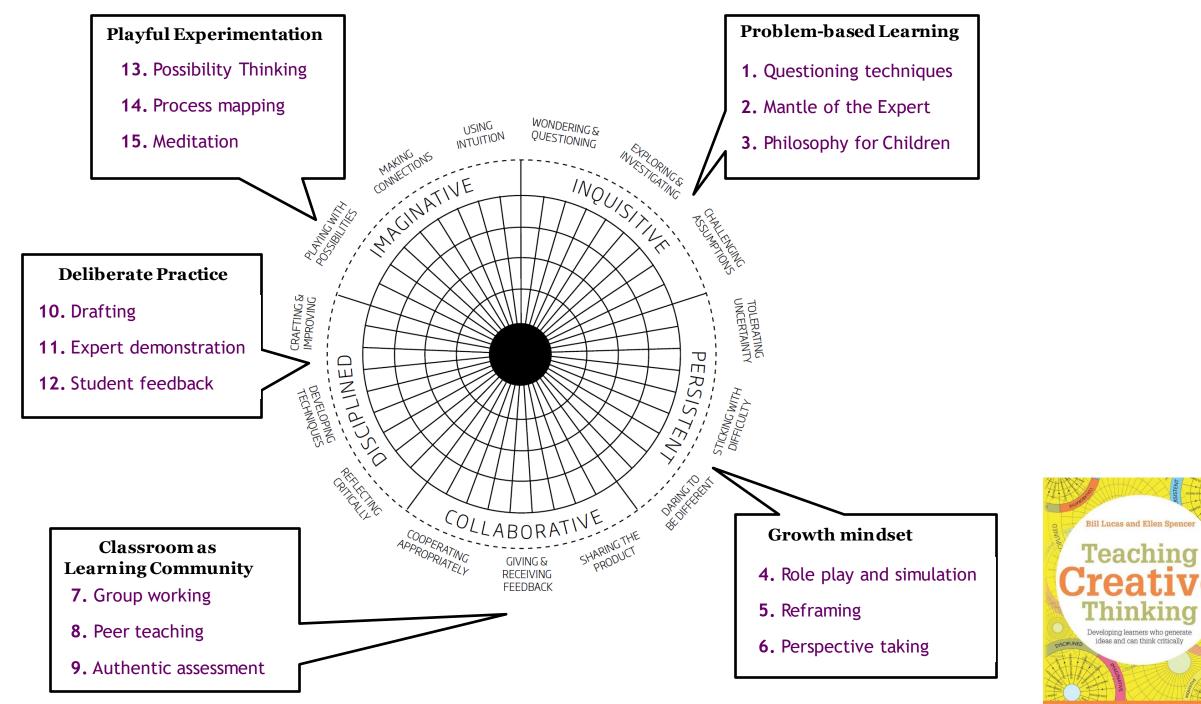




Use signature pedagogies



Lee Shulman (2005) Signature pedagogies in the professions. *Daedelus*, 134, 52-59

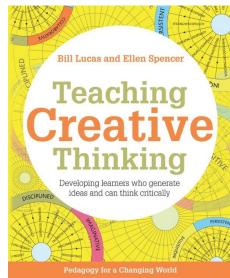




Educational Research and Innovation Fostering Students' Creativity and Critical Thinking



case studies problem-based learning thinking routines philosophy for children role play games deep questions teacher modelling authentic tasks thinking out loud peer teaching coaching self-managed projects enquiry-led teaching



[How to assess it]

Evidencing dispositions like creativity

Pupil

Real-time feedback

Photographs Self-report questionnaires Logs/diaries/

journals

Portfolios

Teacher Criterionreferenced grading Structured progress interviews Performance tasks

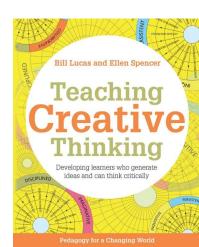
Capstone projects

Online **Real-world** Expert reviews Gallery critique Authentic tests eg displays presentations, interviews podcasts films

Exhibitions

Apps Digital badges E-portfolios The programs Tast programs Tast programs

Educational Research and Innovation Fostering Students' Creativity and Critical Thinking



Draft Rethinking Assessment Learner Profile





Harriet Smith

I am a Year 13 student who has a passion for science and is looking to study engineering at university...





terests
Photography
Running
Nature

THE 3Cs OF SUCCESS ME AS A LEARNER What are my strengths? What do I want to change about my community / the world? I like to play with things - to break them down and build them up. Whether that's ideas or physical things. So I like CREATIVE TH Girls in my area have very little sport they can do. There are taking apart mobile phones and seeing how they work. plenty of sports aimed at boys but far less for girls. In the last I think my real strength is being able to see the detail and five months I have got together with my friends to campaign how it links to the big picture. for change and to make the case to the local council. What do I need to work on? What motivates me? I find it hard sometimes to work in a team. I am so keen to My younger brother has learning difficulties and from get on with things i get frustrated with those who want to a young age I've supported him. I can see how he slow things down. So I am working hard and making sure struggles and that he is not always understood. This has everyone inlcuding me has a defined role that they can get given me a passion for doing something meaningful in kion, Language, Erri my life that helps others overcome difficulties. on with. COMMUNICATION + + BUILDING BLOCKS COURSES PERSONAL PROJECT My Extended Project Qualification (EPQ) MAJOR COURSES MINOR COURSES was to build a drone that could deliver > French medicines to those who need emergency > Biology supplies. Literacy Numeracy > Physics > Coding Design Read more APPLIED COURSES INTERDISCIPLINARY COURSES Cooking > Climate change **Digital Skills** Oracy Football coaching > Migration > Real world project at advertising company + + TESTIMONIALS MY BEAUTIFUL WORK MY ACHIEVEMENTS "Harriet did a real world learning placement with us for 6 months and showed what a great problem solver she is. She was so skilled at breaking down a project into the parts Duke of Church that really mattered and working systematically through Lamda Edinburgh Drama Youth them to achieve a high quality outcome. " Leader Bronze Award Jenny Tibor, head of product development

Rethinking assessment in education: The case for change BILL LUCAS



LEADING



Student self-report questionnaires

Description

A self-report questionnaire is a series of statements or questions which students use to self-rate.

Benefits include:

- Encouraging self-awareness
- Promoting agency
- Being able to track development
- Inviting support from peers and their teacher.
- Developing student agency.

How to

Typically self-report questionnaires might be framed as 'can do' statements or learners might be given alternative words to choose such as 'never', 'sometimes', 'often', 'always' to describe the degree to which a course of action is truly confident or 'not at all', 'quite', 'very', 'extremely' to describe their degree of confidence with regard to a particular activity.

Another way of developing these is to produce a statement such as 'I always keep going when I get stuck' and ask children to say whether it is 'like me' or 'not like me'. If this is represented graphically it is possible to have a sliding scale to enable pupils to show progress. Self-reports like these can be a useful tool in helping pupils start to use and understand language to describe their progress. On their own they are neither valid nor reliable, but set against other measures such as teacher's observations they can be very useful.





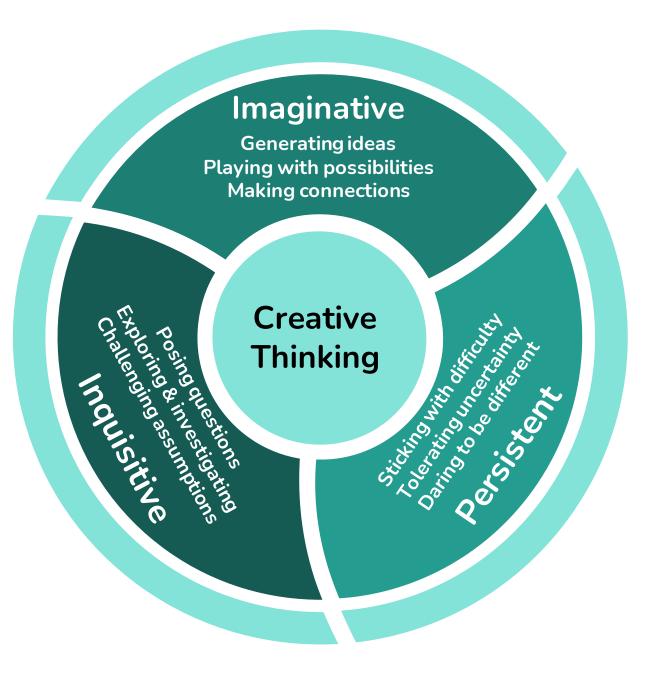
Figure 13. Visualising the development of creative thinking.

Schools may want to use or adapt a self-report questionnaire based on the five creative habits model, Appendix 2.



A field guide to assessing creative thinking in schools

Bill Lucas





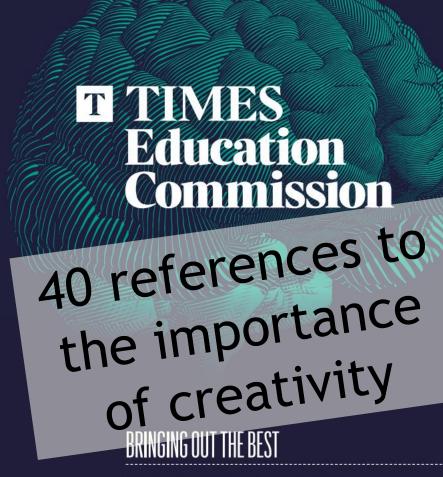


Creative Thinking progression

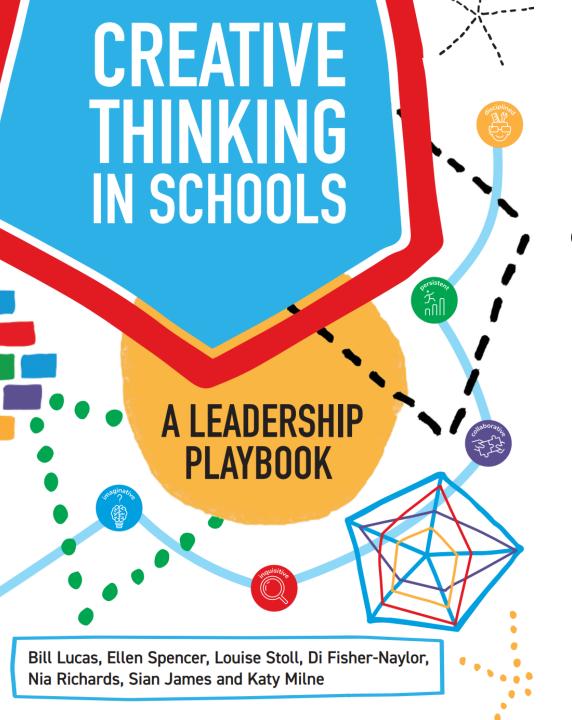
	Starting point	Emerging	Developing	Deepening	Key indicators
		1			1
1. Imaginative					
1.1 Generating ideas	Learners provide one or two simple/obvious ideas with strong support	Learners provide a small number of relatively obvious ideas with some support	Learners provide many ideas, some well- developed, largely working on their own	Learners generate a large number of ideas, relevant to the context and working independently	Number/agency
1.2 Playing with possibilities	Learners provide a very limited range of ideas all focusing on the same theme	Learners' ideas represent a small range of themes and show some exploration of the theme	Learners provide a range of ideas that are distinct from one another and which show genuine exploration of the theme	Learners generate a wide range of alternative ideas and solutions, sometimes adapting existing ideas, sometimes integrating other perspectives	Range/complexity
1.3 Making connections	Learners present ideas that are very obvious or conventional only containing concepts with which they are already familiar	Learners present ideas that are mostly obvious or conventional containing a few concepts with which they are not already familiar	Learners present ideas which show some flexibility and willingness to go beyond their existing experiences, combining elements of a task to explore new combinations of ideas	Learners present ideas which show that they can think flexibly going beyond their existing experience or social context, combining elements of a task to allow for novel combinations of ideas	Novel connections

The Commission proposes that this new qualification should also be supported by a Digital Learner Profile, a personal online portfolio for every student.

The Commission proposes that this new qualification should also be supported by a Digital Learner Profile, a personal online portfolio for every student. It would include academic qualifications alongside a record of other achievements: video footage of a pupil playing a musical instrument, photographs of projects they have worked on or details of expeditions, volunteering and work experience. A prototype of the digital profile already exists.



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