

- 1. What are the elements of school climate in which tenacity flourishes? What is the role of system leaders in creating and sustaining this?
- 2. Which formal or informal pedagogies cultivate resilient students? What is the role of system leaders in creating and sustaining this?
- 3. And what about resilient staff? What is the role of system leaders here?

Resilience - what it is and why it matters

Y7CM		9.15 to 9.55	9.55 to 10.45		3 11.05 to 11.55	4 11.55 to 12.45		5 1.45 to 2.35	2.35 to 3.25
Monday	Da	Literacy	English		Maths	ICT		PSCHE	Geography
Tuesday	Dally Assembly	English	Art	Break time	French	Science	Lunch time	Design Technology	
Wednesday	⊒	Literacy	DT	(10.45 - 1	Art	Drama	(12.45 -	ICT	Science
Thursday	00 –9.15)	PE	Maths	1.05)	RE	English	1.45)	History	PSCHE
Friday	6 =A	Literacy	Maths		Art	Science			PE

Some key words

resilience

grit

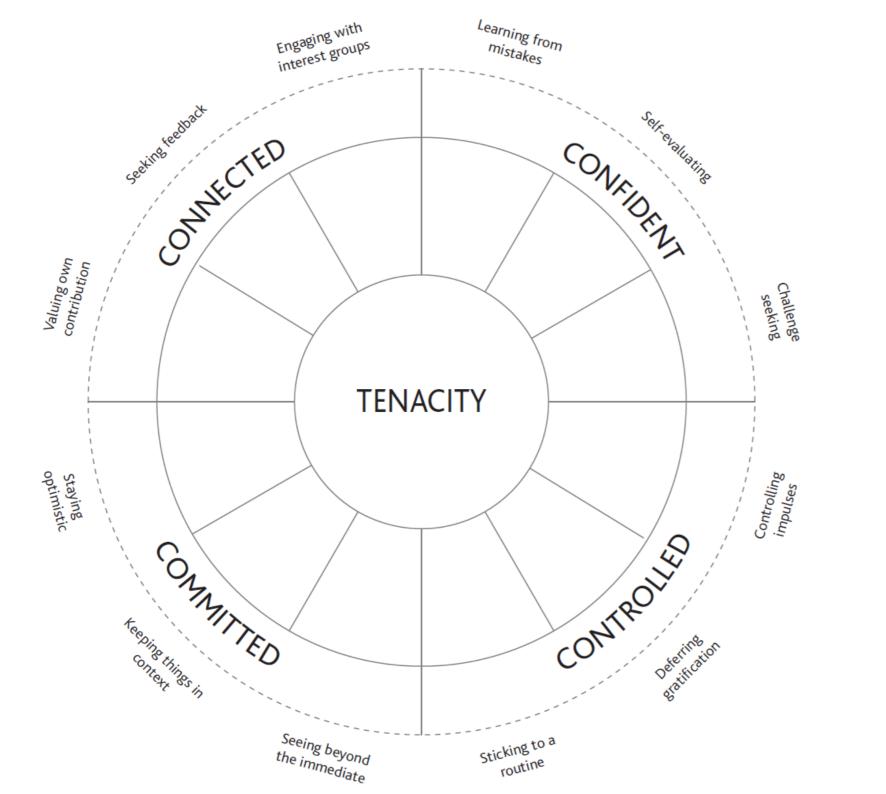
tenacity

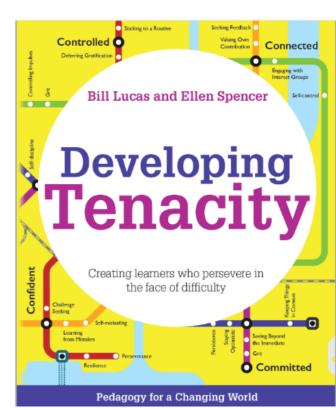
persistence

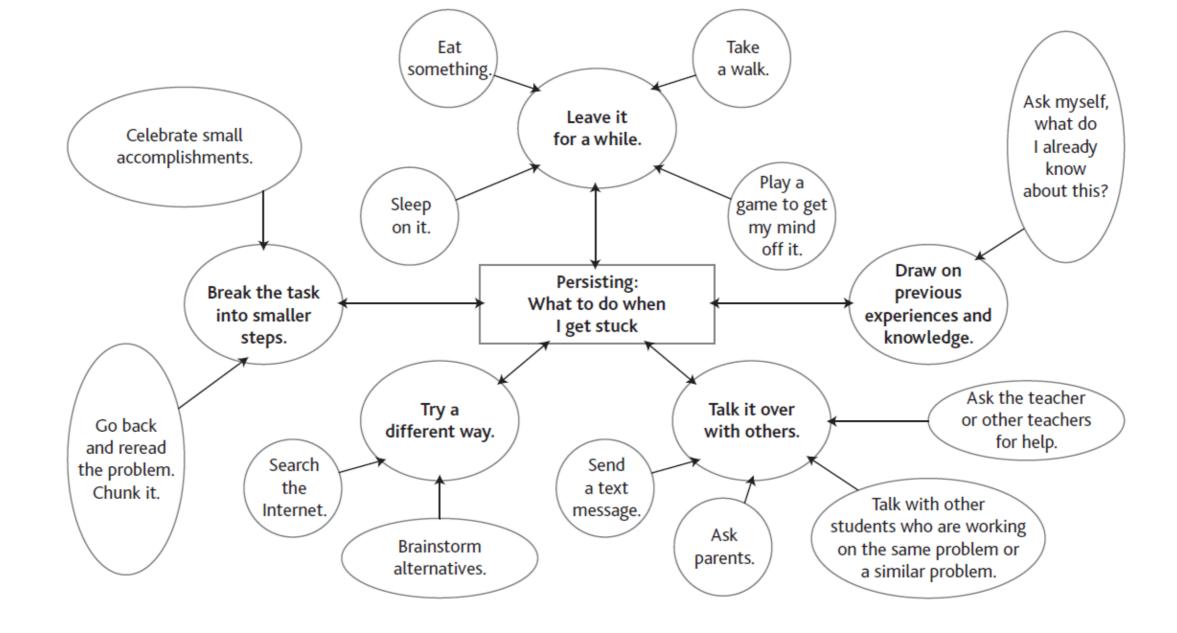
perseverance

self-control

growth mindset







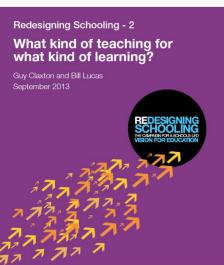
Skills and strategies for persisting

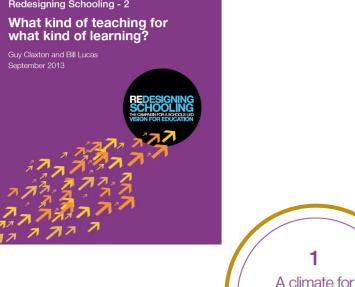
Source: Anderson and Costa (2008, p. 85)











A culture of collaborative enquiry, with students and teachers learning together

Systems leadership is essentially about how to create, improve and sustain successful organisations. This is a social process. While we do not underestimate the critical issues in creating commercial and technically viable organisations, even these are built on the social process of human relationships.

Pedagogic leadership

MacDonald, Burke and Stewart (2017) Systems Leadership Aldershot: Gower

A focus on the science, craft and art of learning

outstanding

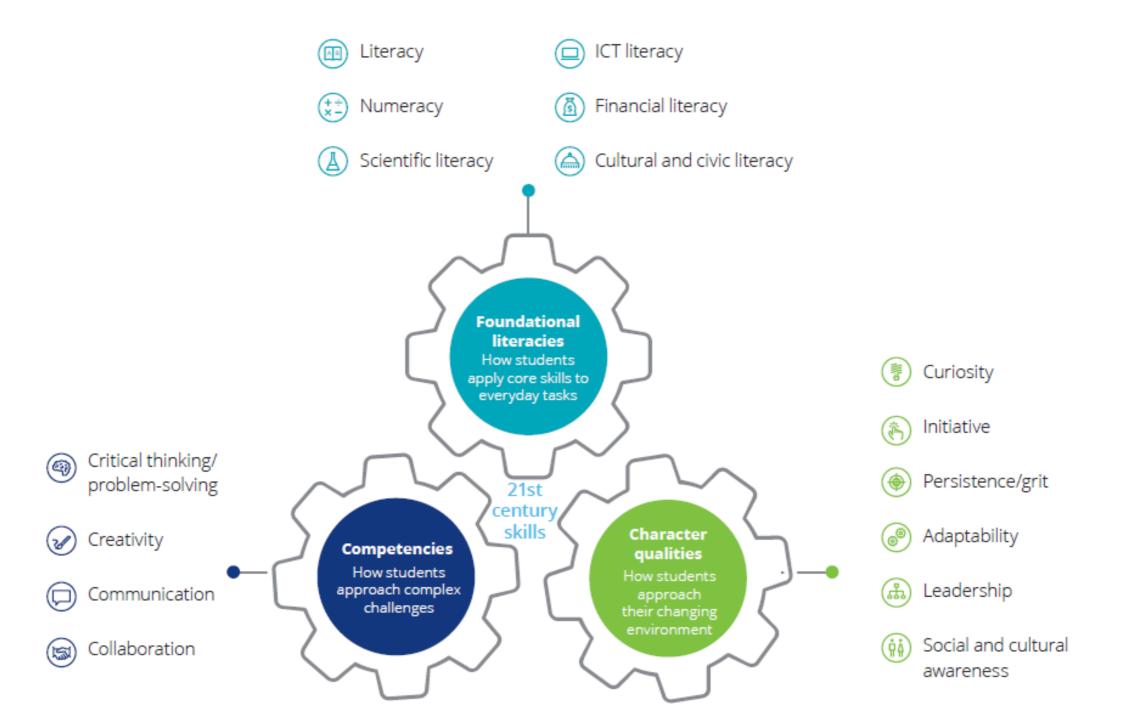
learning

A focus on the changes necessary to improve learning

- 1. What are the elements of school climate in which tenacity flourishes? What is the role of system leaders in creating and sustaining this?
- 2. Which formal or informal pedagogies cultivate resilient students? What is the role of system leaders in creating and sustaining this?
- 3. And what about resilient staff? What is the role of system leaders here?

Characteristics, values and habits that last a lifetime						
The system should encourage young people to be	This means helping to instil the following attributes					
Determined	Grit, resilience, tenacity					
	Self-control					
	Curiosity					
Optimistic	Enthusiasm and zest					
	Gratitude					
	Confidence and ambition					
	Creativity					
Emotionally intelligent	Humility					
	Respect and good manners					
	Sensitivity to global concerns					





CHARACTER SKILLS

Perseverance ('grit')

Self-control

Trust

Attentiveness

Self-esteem and self-efficacy

Resilience to adversity

Openness to experience

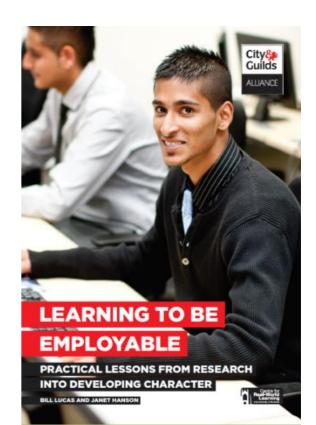
Empathy

Humility

Tolerance of diverse opinions

Engaging productively in society

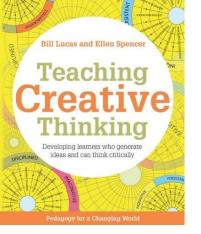
James Heckman & Tim Kautz (2013)



NON-COGNITIVE SKILLS

- 1. Self-perception an individual's belief about whether or not they can accomplish a task includes self-efficacy, which relates to how they feel about past performance, and expectations about performing specific tasks in the future
- 2. Motivation why individuals think and behave as they do
- 3. Perseverance steadfastness on mastering a skill or completing a task (it includes engagement, ie: how committed students are to academic tasks, and grit, ie: perseverance and passion for long-term goals)
- 4. Self-control the ability to forgo short-term temptations, appetites, and impulses in order to prioritise a higher pursuit
- 5. Metacognitive strategies consciously focusing on thinking, selecting, monitoring and planning strategies that are most conducive to learning
- 6. Social competencies social interactions and relationships with others, including leadership and social skills
- 7. Resilience and coping resilience is adapting positively to challenges despite the presence of risk; coping involves using skills when faced with specific difficulties, and this process of coping leads to resilience
- 8. Creativity the production of novel and useful ideas

Leslie Gutman & Ingrid Schoon (2013)
The impact of non-cognitive skills on outcomes for young people.

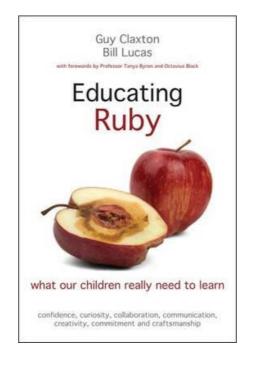


Ruby Power



Commitment

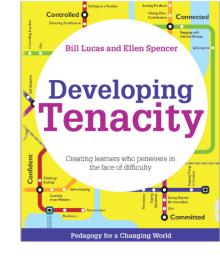
Creativity



Curiosity

Collaboration

Communication



Resilience - how is it cultivated?

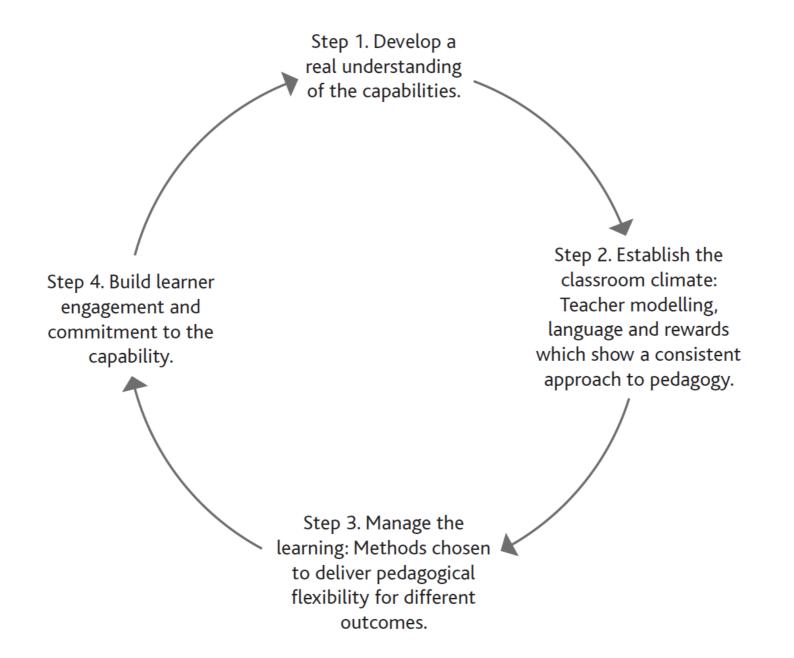
How are capabilities cultivated?

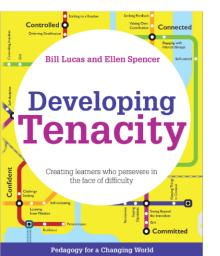
Formal teaching Informal learning

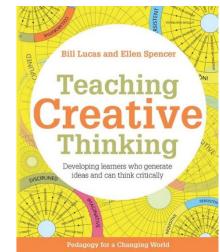
'Students who, over an extended period of time are treated as if they are intelligent, actually become more so. If they are taught demanding content, and are expected to explain and find connections...they learn more and learn more quickly. They think of themselves as learners. They are [better] able to bounce back in the face of short-term failures.'

Resnick, Lauren (1999). Making America Smarter. *Education Week Century Series*. 18(40), 38-40.

A cyclical process







1. Teach knowledge and resilience



2. Make resilience visible and habitual

V_I H_I N^BK 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

VT Notwork

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... Now I think...</u> 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

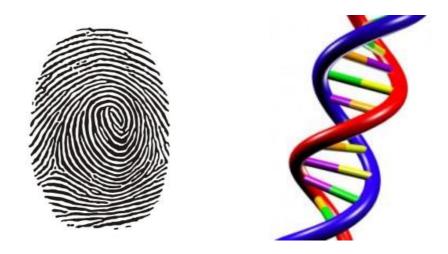
Compass Points A routine for examining propositions



(This will download all Core Routines)



3. Use signature pedagogies to embed resilience



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

Some signature pedagogies

Playful experimentation

Problem-based learning

Deliberate practice

Developmental self-evaluation

Growth mindset

Service learning

Positive psychology

Classroom as a learning community

How are capabilities cultivated?

Formal teaching Informal learning

Teaching more than just sailing



WEATHER. 1

KS 3 Geography

Understands key process in weather and climate

SAILOR 2

KS 3&4 PE

Take part in outdoor and adventurous activities which present intellectual and physical challenges and be encouraged to work in a team, building on trust and developing skills to solve problems, either individually or as a group

KS 182 English

Ask relevant questions to extend their understanding and knowledge

WEIGHT OF SAILOR VS FORCE OF WIND, 3

KS 3 Science

Opposing forces and equilibrium

BOAT AND PERSONAL BUOYANCY, 4

KS 3 Science

Floating and sinking

STEERING & RUDDER, 5

KS 3 Science

Forces as pushes or pulls, arising from the interaction between two objects

STEERING

KS 1&2 Maths

"Pupils use the concept and language of angles to describe 'turn' by applying rotations, including in practical contexts" KS 1 Geography

> Use simple compass directions (North, South, East and West)



FORCE OF WIND ON SAIL

KS 2 Science

Identify the effects of air resistance, water resistance and friction, which act between moving surfaces

KICKER AND/OR MAINSHEET

KS 283 Science

Recognise that some mechanisms, including levers, pulleys and gears give bigger force but at the expense of smaller movement.

7. BOAT MOVING FORWARDS

KS3-Science

Speed and the quantitative relationship between average speed, distance and time (speed = distance/time)

8. ANGLES USED IN SAILING

KS 182 Maths

Identify angles and recognise they are measured in degrees. Use measurements to describe turns

9. HULL OF BOAT

KS 2 Science

Identify the effects of air resistance, water resistance and friction that act between moving surfaces

10. DAGGER BOARD

KS 3 Design and Technology

Understand and use the properties of materials and the performance of structural elements to achieve functioning solutions

11. WAVES

KS 3 Science

Waves on water as undulations which travel through water with transverse motion



JO GOODE, HEADTEACHER

"Sailing teaches publis how to read situations and solve problems from an early age. We see these skills of practical application translate into academic learning. The natural surroundings inspire creative young minds to better understand and appreciate the environment too."

SIAN, AGE 17

"The opportunities to develop personal leadership skills through sailing have been very significant for Sian. As a volunteer activities leader, she takes on responsibility that has enabled her to operate calmly and effectively under pressure and has provided her with strong teamwork and leadership skills."

DAI, AGE 22

young man I am. After my parents divorced, I felt lost and abandoned. But encouraged by my mum and Dinghy Instructor, Teaching sailing then overtook my life and became

JACK, AGE 14

enabled my son to become friends with people of all ages, young and old, he can know chat to anyone. He has become a real team player and is able to think on his feet."



DAVID, AGE 17

"David was born with 50% sight: he was shy with low self-esteem. When he joined the sailing school group his confidence grew, the difference in him was enormous, schoolwork and social life."

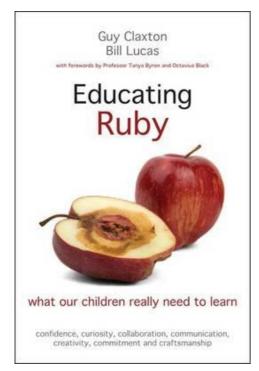


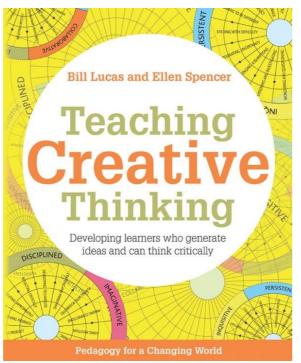
HARRY, AGE 13

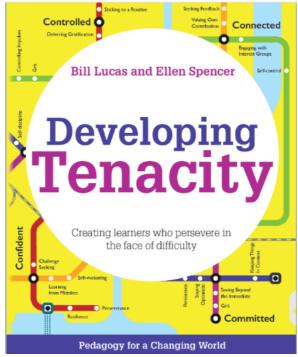
*Our son shied away from 'traditional' sports. Sailing made him realise that sport doesn't have to be competitive; he just enjoys being out on the water. He has gained so much confidence though sailing he now does other outdoor pursuits too."

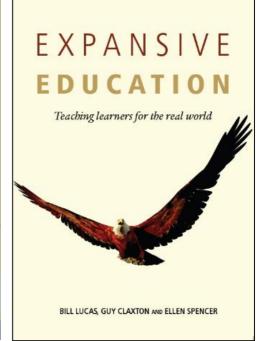


- 1. What are the elements of school climate in which tenacity flourishes? What is the role of system leaders in creating and sustaining this?
- 2. Which formal or informal pedagogies cultivate resilient students? What is the role of system leaders in creating and sustaining this?
- 3. And what about resilient staff? What is the role of system leaders here?









Philippians 4: 6-7

- ⁶ Do not be anxious about anything, but in every situation, by prayer and petition, with thanksgiving, present your requests to God.
- ⁷ And the peace of God, which transcends all understanding, will guard your hearts and your minds in Christ Jesus.

Web E-mail Twitter

bill.lucas@winchester.ac.uk

www.expansiveeducation.net

www.winchester.ac.uk/realworldlearning

www.educatingruby.org

@LucasLearn @Pedagogy4Change

