How do we orientate ourselves in a time of digital and teaching transformation?

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What factors influence how we respond to digital technological developments?

Can a better understanding of how we learn help us navigate a range of digitally-driven challenges?

What role do knowledge and memory play in learning in our digital age?

Create

Evaluate

Analyse

Apply

Understand

Remember

Anderson, Lorin W., et al. A Taxonomy for Learning, Teaching, and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives. Complete ed. Longman, 2001.
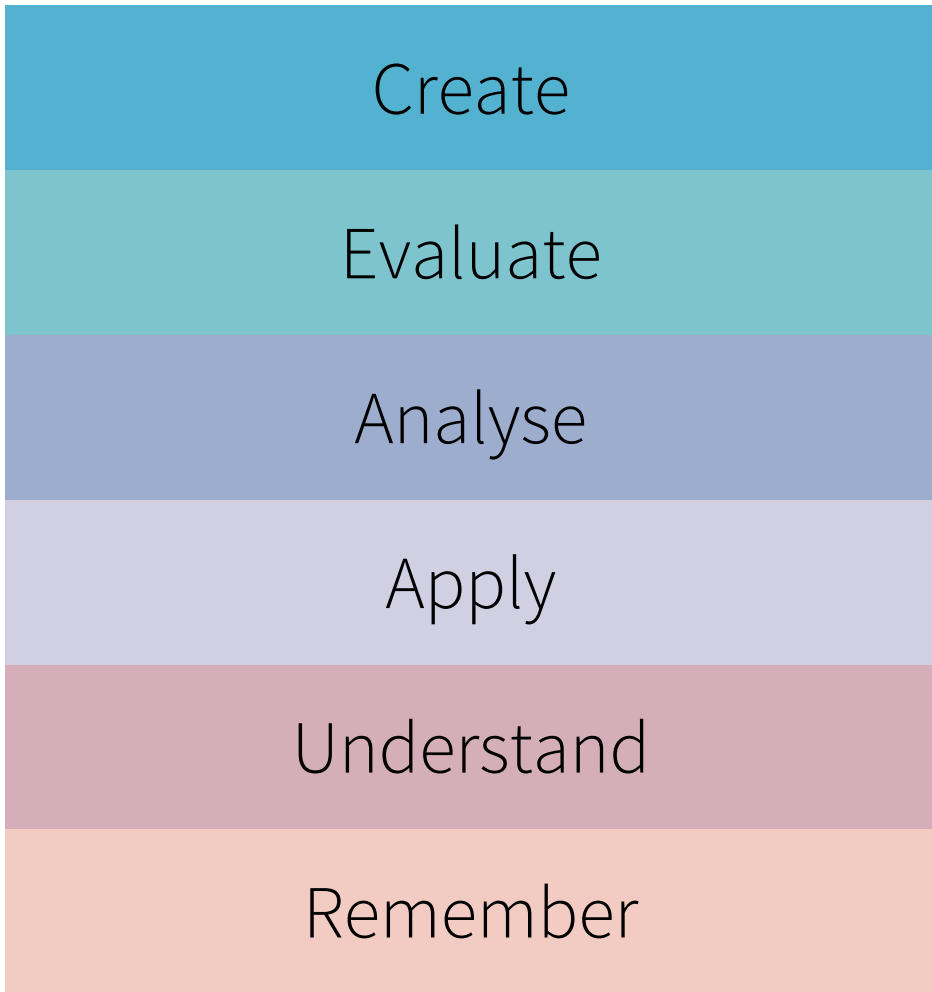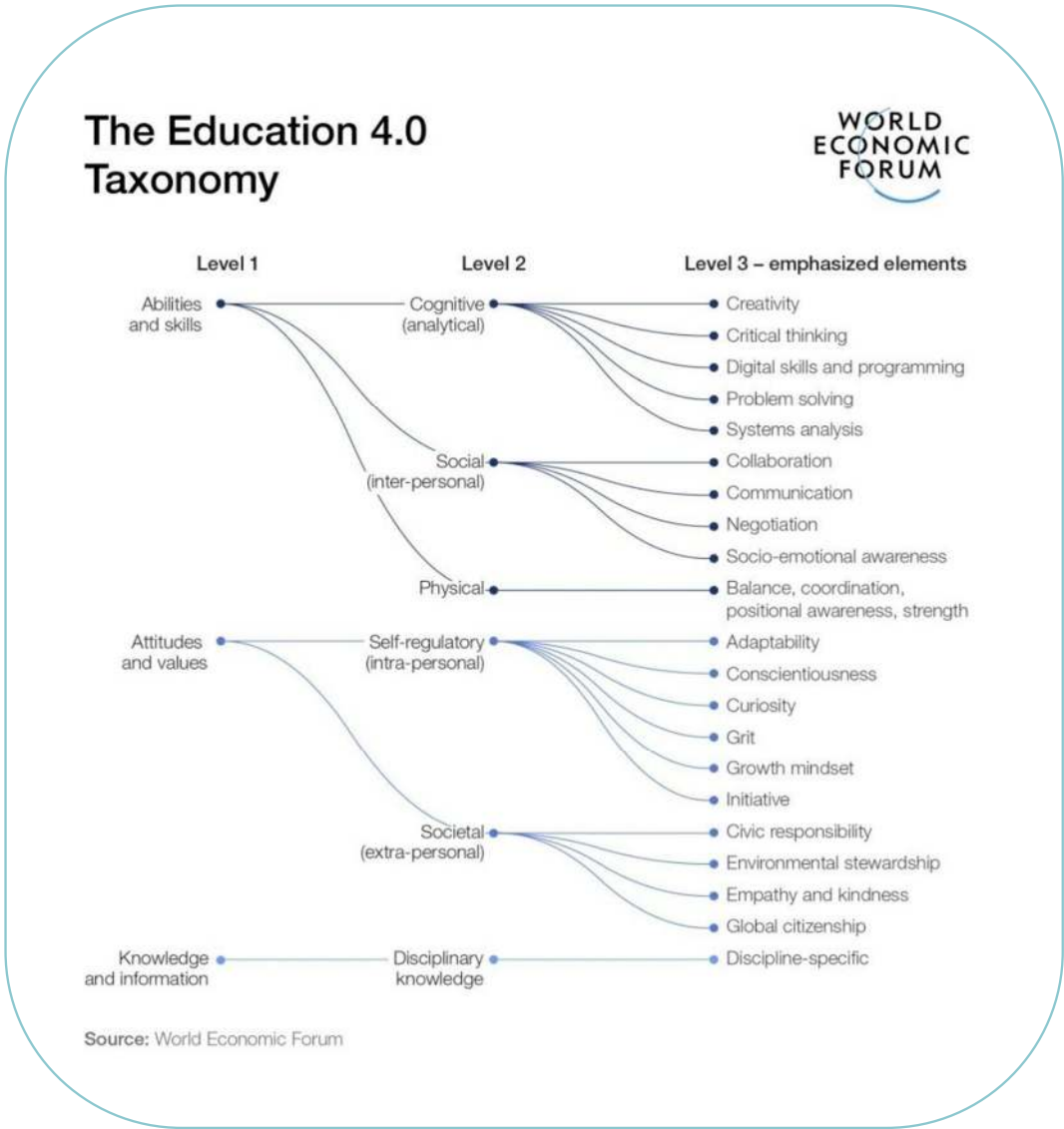
Create

Evaluate

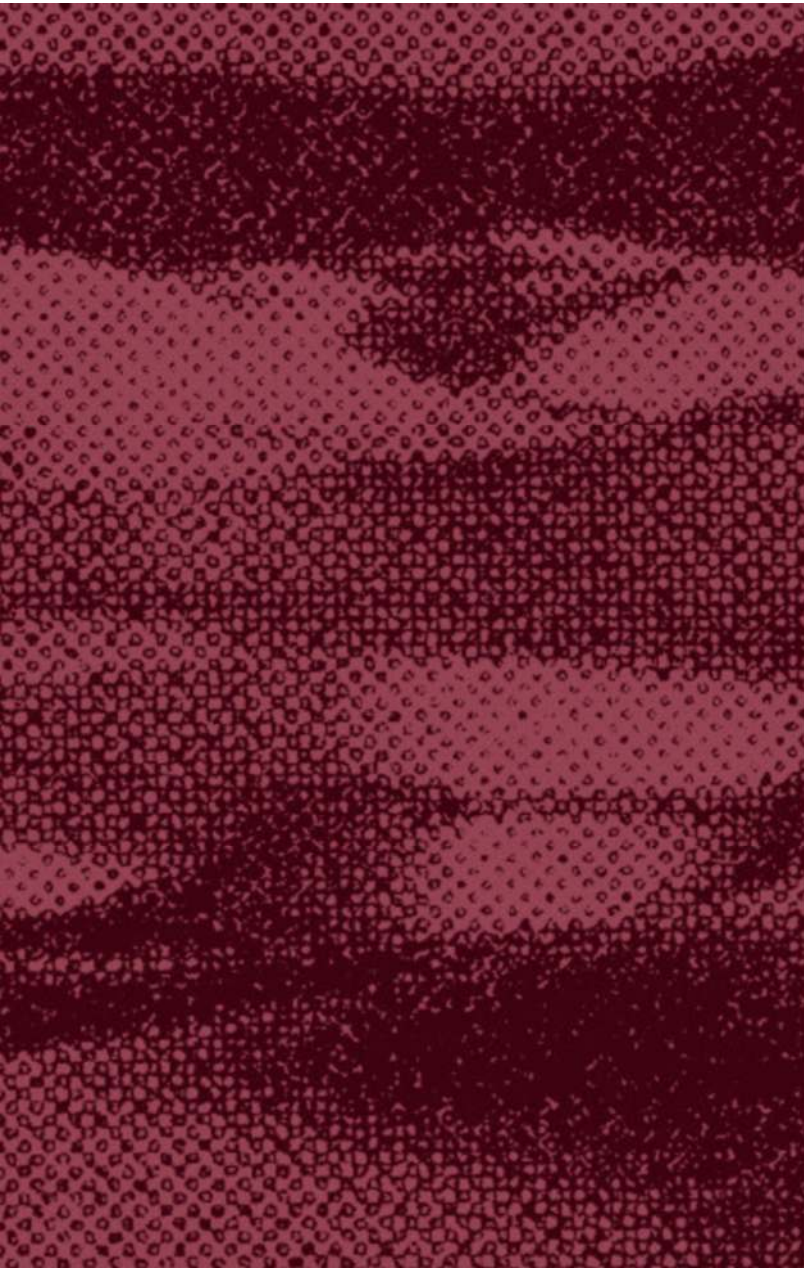Analyse

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The Education 4.0 Taxonomy

WORLD ECONOMIC FORUM

Level 1	Level 2	Level 3 – emphasized elements
Abilities and skills	Cognitive (analytical)	Creativity
		Critical thinking
		Digital skills and programming
		Problem solving
		Systems analysis
	Social (inter-personal)	Collaboration
		Communication
		Negotiation
		Socio-emotional awareness
	Physical	Balance, coordination, positional awareness, strength
Attitudes and values	Self-regulatory (intra-personal)	Adaptability
		Conscientiousness
		Curiosity
		Grit
		Growth mindset
		Initiative
	Societal (extra-personal)	Civic responsibility
		Environmental stewardship
		Empathy and kindness
		Global citizenship
Knowledge and information	Disciplinary knowledge	Discipline-specific

Source: World Economic Forum

What role do knowledge
and memory play in
learning in our digital age?

"We have to be careful now, that we rule over the digital world, and are not ruled by it."

Dieter Rams, Rams: Principles of Good Design, BBC [2018]

How important is metacognition as technology becomes more sophisticated and the world of work evolves ?
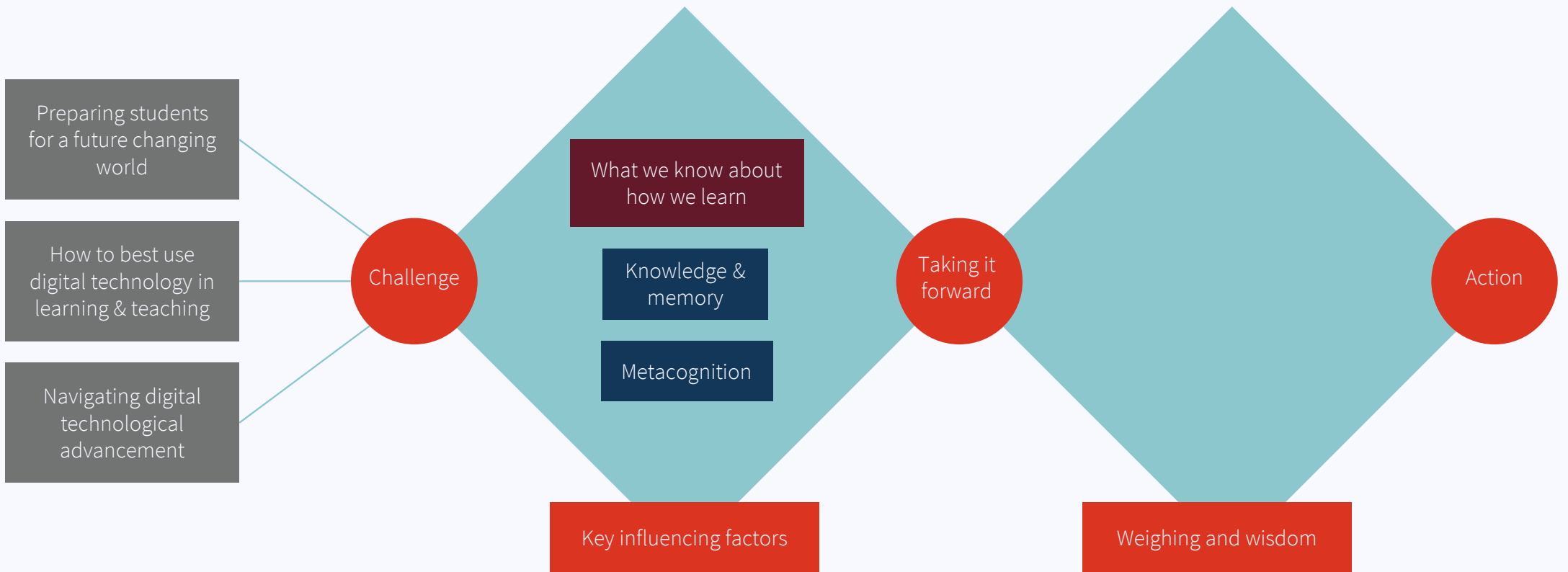
Metacognition & learning

Metacognitive knowledge	Metacognitive monitoring	Metacognitive control

John Dunlosky & Janet Metcalfe (2009) Metacognition, Sage Publishing

How important is metacognition as technology becomes more sophisticated and the world of work evolves ?

Summary

Preparing students for a future changing world

How to best use digital technology in learning & teaching

Navigating digital technological advancement

Challenge

What we know about how we learn

Knowledge & memory

Metacognition

Key influencing factors

Taking it forward

Action

Weighing and wisdom

Questions, comments, reflections.....

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