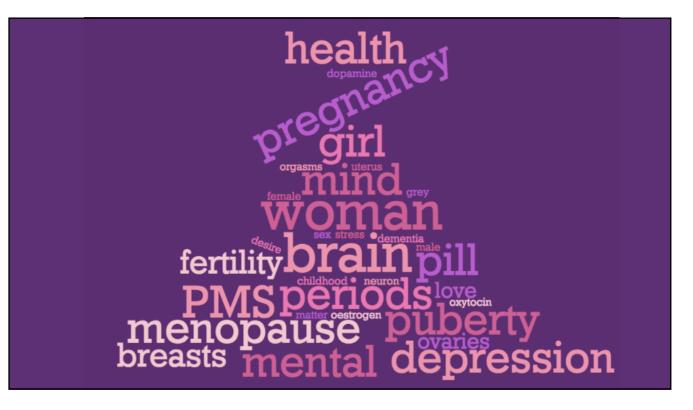
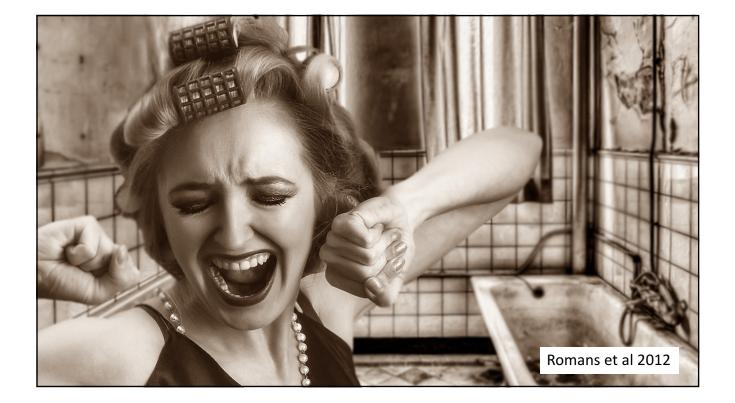
Teenagers and their brains

What motivates them most, and why?

Dr Sarah McKay | Neuroscientist









8/5/19





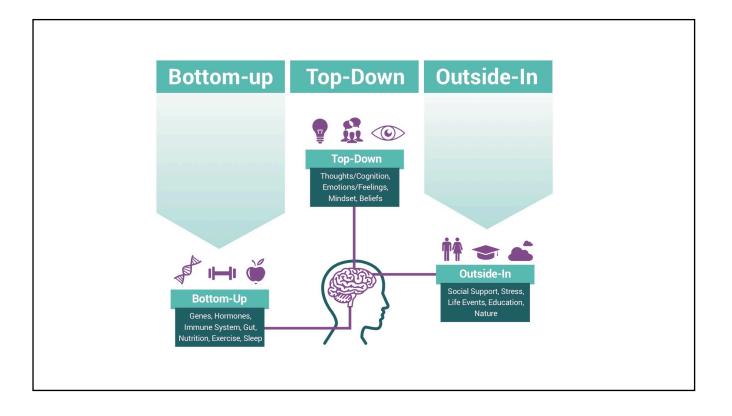






He aha te mea nui o te ao. What is the most important thing in the world?

He tangata, he tangata, he tangata. It is the people, it is the people, it is the people.



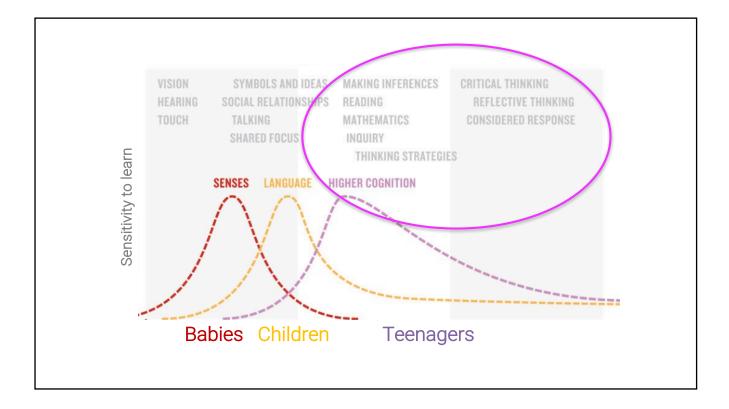


The "teen brain" is often ridiculed as an oxymoron—an example of biology gone wrong.





is at its peak for learning from experience — an example of biological good timing!



The "teen brain"

is HIGHLY motivated when the cause matters.





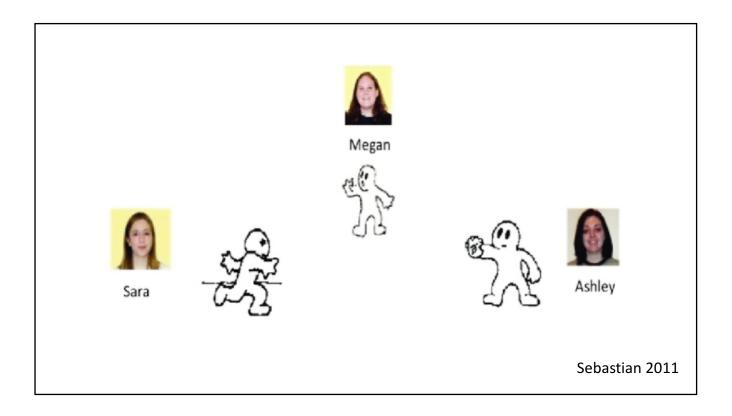




Teen brain facts (that researchers actually agree on)

1. Brain development continues till mid-20s

- 2. Girls *slightly* faster than boys
- 3. Emotional brain matures faster than cognitive brain
- 4. Social brain circuits are plastic + sensitive
- 5. Reward brain circuits plastic + sensitive

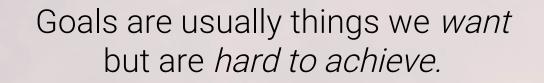






Lots of dopamine

+++++ reward seeking & motivated +++++ novelty seeking +++++ risk (excitement) seeking +++++ sensitivity to social evaluation (& loss) How can you feed the teen brain's need for novelty + risk-taking + excitement + social reward *in* the classroom?



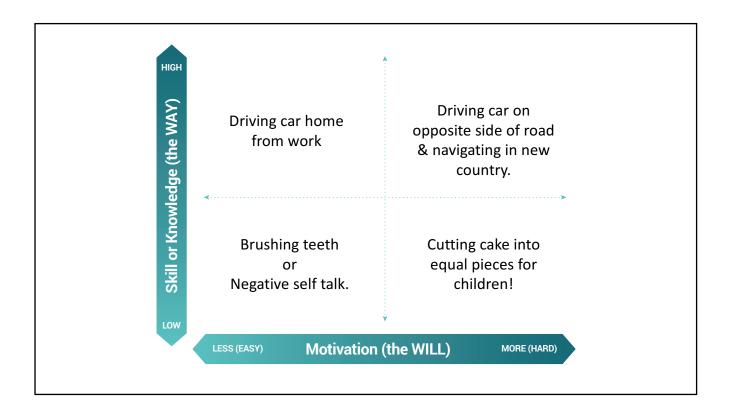


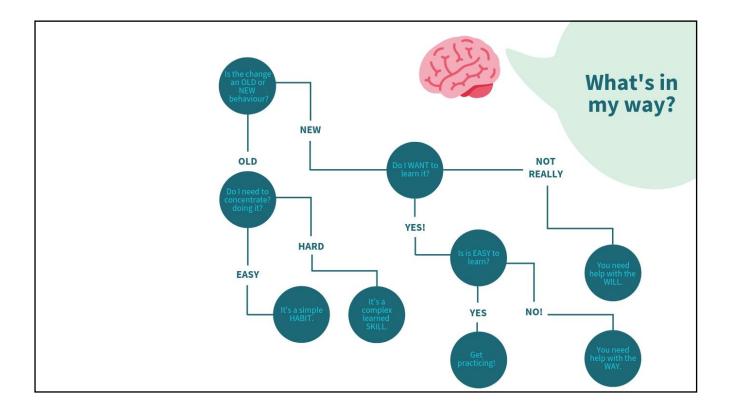
The "WILL" are emotional & motivational factors or drive to get you towards the goal.

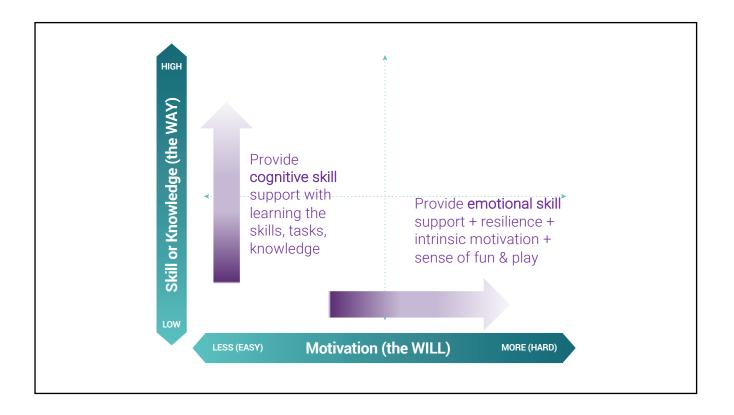
The "WAY" set of skills, knowledge or abilities that will get you there.

Elliot T. Berkman 2018

Skill or Knowledge (the WAY) ହ	Complex but routine	Complex and novel	
Skill or Knowle	Simple and routine	Simple but novel	
	LESS (EASY) Motivation (the WILL) MORE (HARD)	

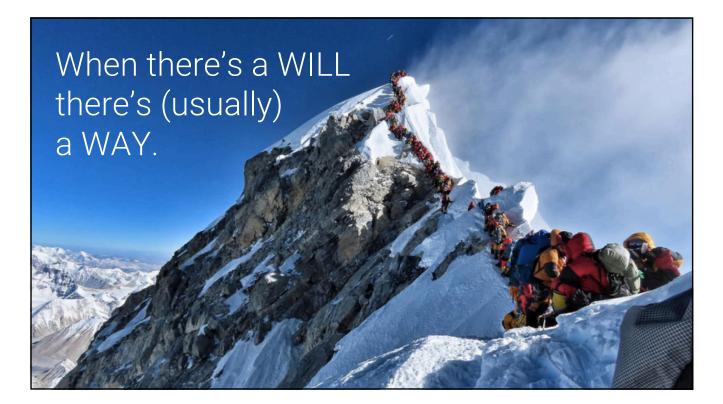






	, emotional control, planning
Striatum	Midbrain, Relevance, wanting, drive
Automatic behaviours & habits	
&	•





What happens when we play?





Play = Flow State

Taking small risks in a low stakes environment

What happens when we play?

- 1. Challenge to overcome
- 2. Seek out what makes you 'feel' strong & happy
- 3. Battle the 'bad guys'
- 4. Seek out & complete quests
- 5. Work with allies / team
- 6. Adaopt a position / identity / ego
- 7. Go for epic wins

SuperBetter McGonigal 2015

Access intrinsic motivation via flow & play.

- Use competition wisely
- Find trustworthy allies
- Discover 'strengths' or superpowers
- Re-frame goals into quests
- Incorporate choice
- Surprise students with bonuses

Success in pursuing long-term academic, athletic or artistic goals, for example, typically requires motivation to practice the relevant skills and a desire to persevere through difficulties.

Teenage brains are primed for such success.

If early childhood is seen as a major opportunity a sensitive period for learning, so too should adolescence.

Pick my (post-peak) brain:



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