Gamification: Tap into Motivation with a Data-driven Approach

BY JAMES ABELA

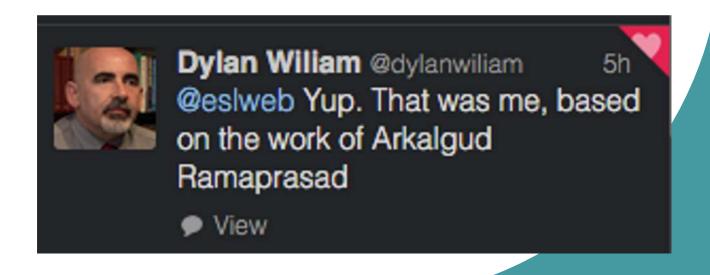


School Results data? Accurate, but too late. What data would have prevented this crash?



"Feedback functions formatively only if the information fed back to the learner is used by the learner in improving performance."

Dylan Wiliam



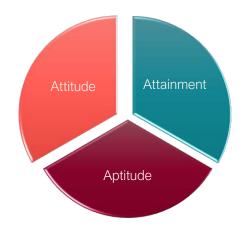


- Rough seas
- Another storm follows



The weather forecast

In the same way we need to collect student attitudinal data before they become terrible exam RESULTS









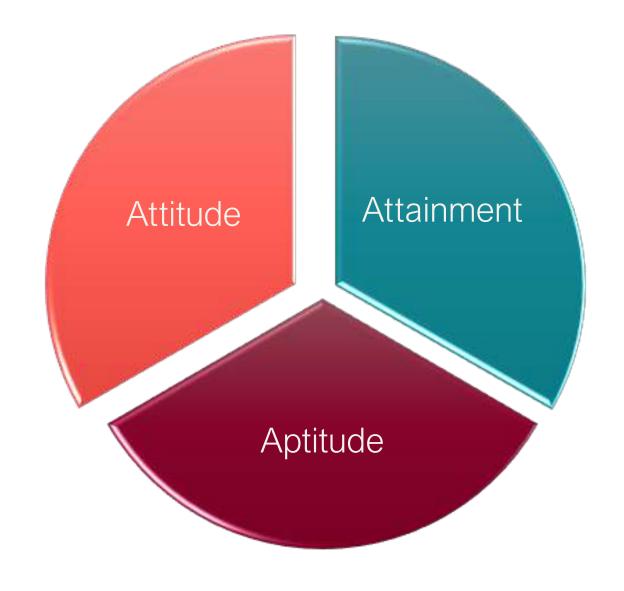


Input

Processing

Output

Data Triangulation

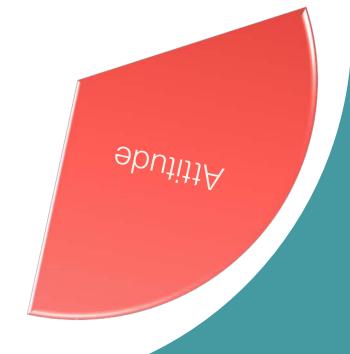


















Drag the characters

RAMP - Intrinsic motivators

Relatedness

User Type: Socialiser

Social Status, Social Connections, Belonging.

Mastery

User Type: Achiever

Learning, Personal Development, Skill Up.

Autonomy

User Type: Free Spirit

Creativity, Choice, Freedom, Agency.

Purpose

User Type: Philanthropist
Altruism, Meaning, A Reason Why.









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Why.

http://bit.ly/GISsuper











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Why.









How are your students motivated?

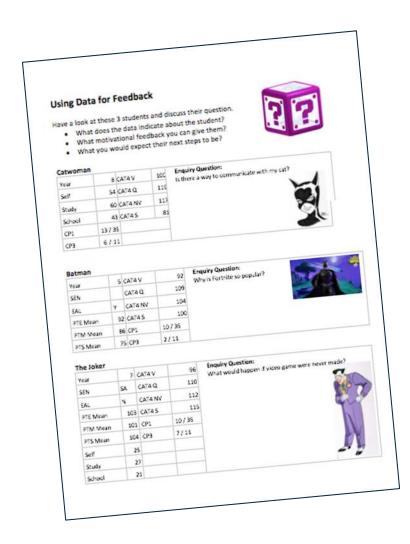
The best teachers know their students, but how can you bring that information to all teachers? What does Facebook do to get info on all its users?

- What data do you already have? Hobbies, interests, clubs, book borrowing
- Use psychological tools to help you such as RAMP to help you.
- Get under their skin





Data profiles (Sometimes called individual education plans)



- Use them to give pen portraits of your students
- Collect info to help get to know each student better
- Combine with SEN / EAL / G&T
- Give flavour from teachers who know them best



Ready Made







BUT needs to be done WITHIN a safe and consistent environment.



I'm a ClassDojo addict!

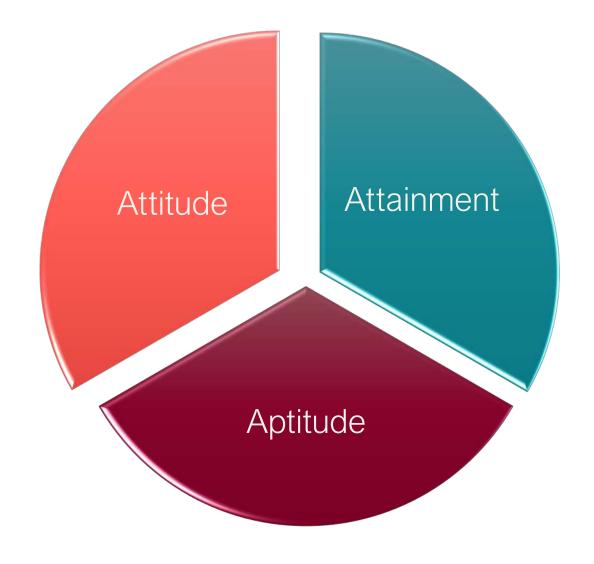






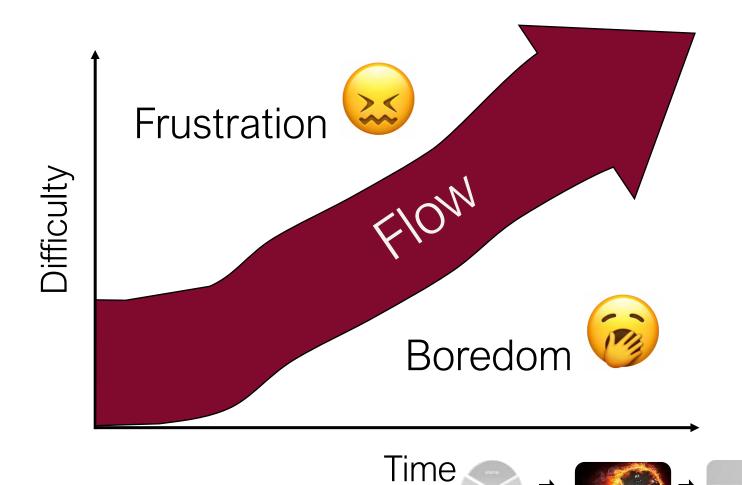


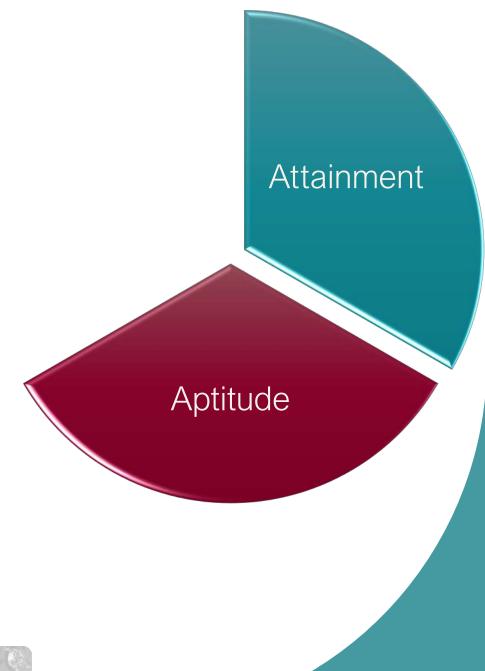
Data Triangulation



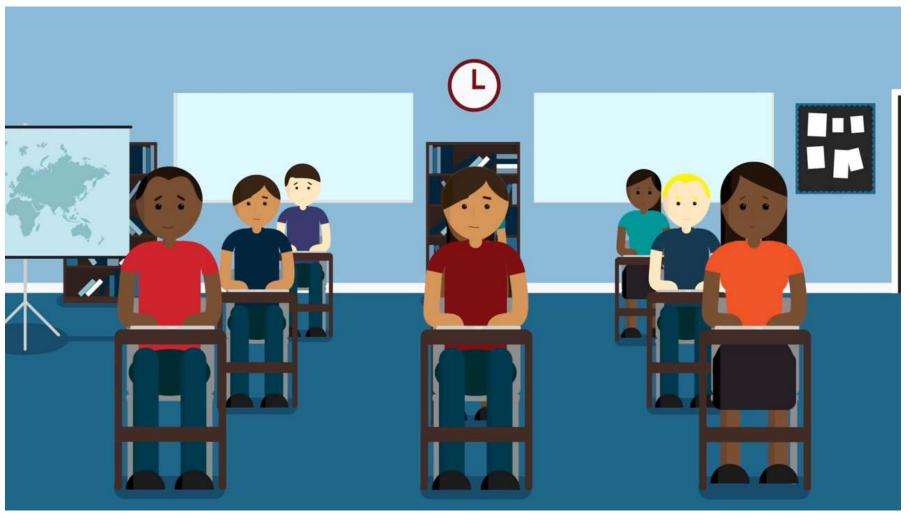


LEARNING CURVE

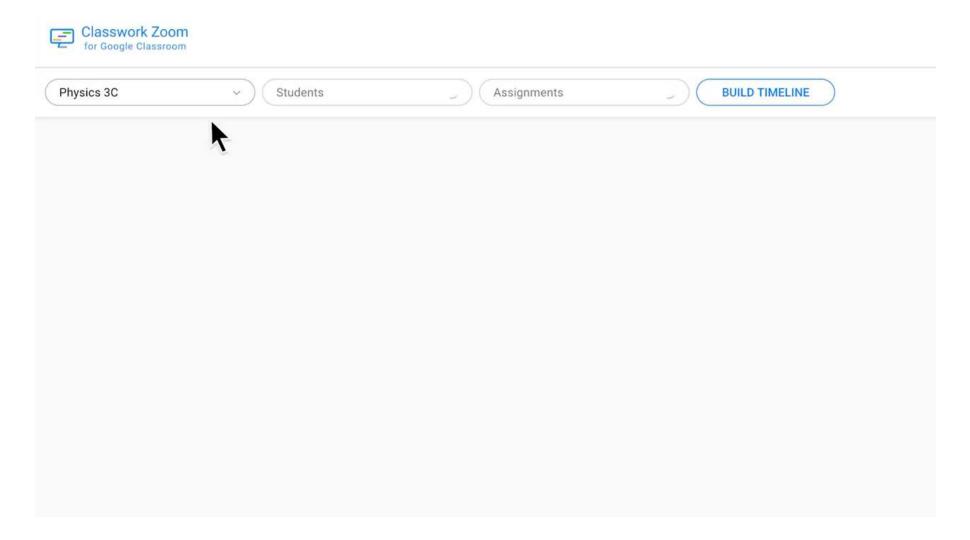




How can we personalize?





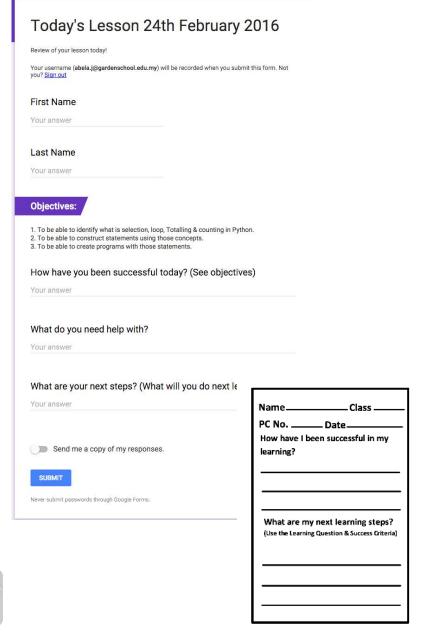


Where are students slowing down? Having difficulties? You can see with a tool such as Classwork Zoom.



Student Voice

- Where are you having difficulties?
- What do you find Easy / Difficult?
- What help do you need next lesson?





Gamifying the experience of data collection and processing





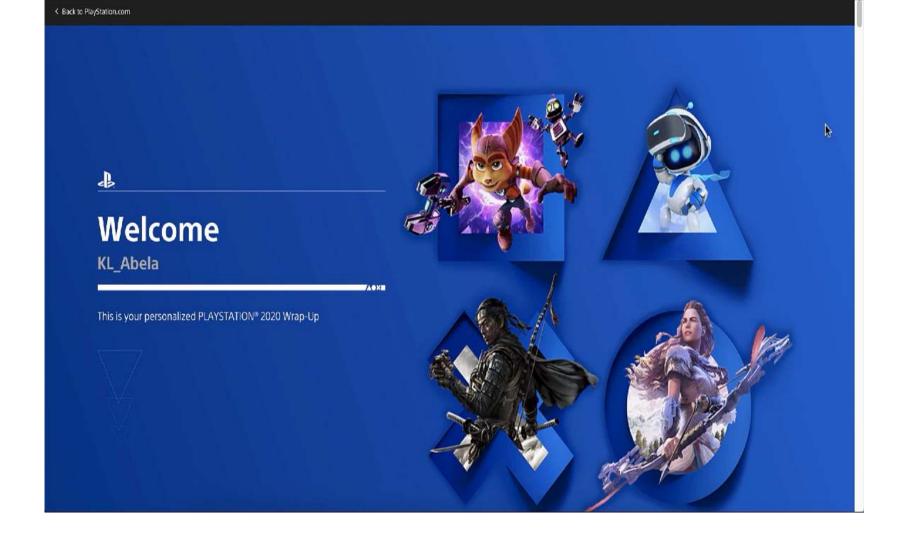












"Celebrate your gaming year with PlayStation Wrap-Up 2020"

Making your systems more game-like



Points



Badges



Levels



Leaderboards



Challenges



Realtime feedback













The Law of Surprise

Key aspect of fun is unpredictability
If rewards are predictable then interest will lesson.

Be generous with points nobody wants 1 or 2 points, give 100. Add to the excitement!



Sites with a focus on Points



Teaches languages with points and competitions



Teaches maths through games and points



My site that teaches coding with points and challenges









	STAGE	100	300	600		
Design Project				\checkmark	Points	
\checkmark	ASK	We tried, but our design does not solve the problem.	Our Google Drawing design solves the problem.	We used our imagination to invent a futuristic solution to the problem!	600	?
			✓			
\checkmark	INVENT	We tried, but our design does not represent physical features of a habitat.	Our design uses a Google Drawing 3D prototype which represents physical features of a habitat.	We have created a complete design which is original!	300	Ō
		\checkmark				
~	SHARE	We tried, but did not share our work in the Online Design Challenge Journal.	We have taken a photo and inserted the image of the habitat with comments to the Online Design Challenge Google Site.	We have created a video of our work using another device, uploaded it to The Online Design Challenge Google Site!	100	<
		✓				
\checkmark	IMPROVE	We tried, but then gave up. Example: Deleting work!	We exhibited perseverance by improving our work most of the time.	We exhibited perseverance by improving our work all of the time!	100	1

Points Collection



USE FORMS AND SHEETS TO WORK OUT POINTS AND KEEP SCORE!





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://docs.google.com/drawing
s/d/111txoqtKngu54fS98Q0
5XjzmXrANSz5cnyKljpuIug/pub?w=100&h=100"
,4,100,100))



Levels

Create a doc with a spreadsheet to calculate the cost of your PC with a justification why you need it.

Assessment Criteria



Bronze

Students will be able to **identify** key terms and choose an appropriate PC with a **table** from a spreadsheet. (Report level 1)



Silver

Students will have a Spreadsheet that clearly shows the differences between at least 3 computers and justifies their decision. (Report level 2)



Gold

Students will create a document that **justifies** clearly their choice, shows that they have **balanced** value for money and performance and it is presented in an attractive way. (Report level 3)



Obsidian

Meets all Gold standards and includes an **independently developed** interactive spreadsheet that enables a user to click through the options. e.g. Uses validation to display a comparison table, highlight key specs and appropriate charts. (Report level 4)



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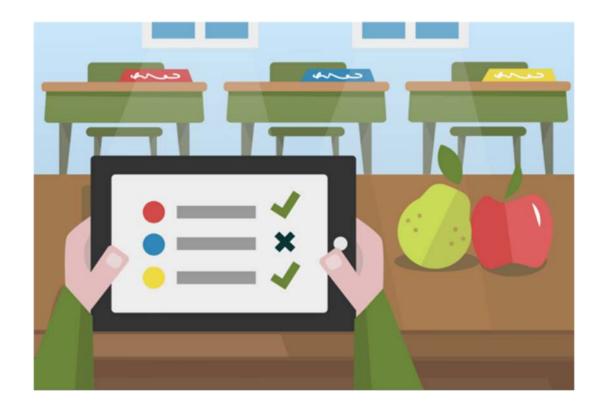






Realtime Feedback

Use Forms to give instant feedback





Conclusion



Understand what motivates your students – Gain qualitative data that will enable teachers to connect with students quickly and design truly enjoyable lessons that are student centred



Collect Data quickly and efficiently – Dashboards enable teachers to react, adjust and personalize materials. Don't wait for the end of term! Your LMS should adapt to a student's flow.



Create systems that deliver rewards using gamified systems. Can your LMS efficiently deliver badges & Certificates? Can you surprise students with rewards?