

Assessment: foundations and related concepts

Ernesto Panadero

ernesto.research@gmail.com

Ikerbasque Researcher, Universidad de Deusto (Spain)

12th November 2021

Education,
Regulated
Learning &
Assessment
group

1

About me

More info www.ernestopanadero.es and @ernestopanadero

<https://erlagroup.wordpress.com/> & @ERLAgrouP

2

Assessment

3

Assessment in education

- Process of observing a sample of a student's behavior and drawing inferences about the student's knowledge and abilities (Ormrod, 2006).
 - Who observes?
 - What behaviors?
 - What type of inferences?
- All of these are key: and you take these decisions

4

Do we need to assess? Why do we assess?

Evidence of students' learning and teachers' instruction

Goal and motivation: example how they would act with different assessment

Accountability

5

6 Assessment axis

- Informal: involves spontaneous, unsystematic observations
- Formal: involves preplanned, systematic data gathering

- Traditional: assesses learning separate from real-world tasks
- Authentic: assesses ability to apply learning to real-world tasks

- Paper-pencil: involves written responses
- Performance: involves non-written behavior

6

6 Assessment axis

- Standardized test: developed by experts for use in schools
- Teacher-developed: developed by teachers for their own classrooms

- Criterion-reference: indicates mastery or non-mastery of specific topics
- Norm-reference: compares performance to that of peers

- Summative: assessment OF learning
- Formative: assessment FOR learning
 - Continuum not extreme poles

7

Summative (Strijbos, 2011)

- Decontextualized and individualistic,
- Isolated from the learning process
- Takes place at the end of a course
- Focus on the cognitive aspects of learning (e.g. memory)

- Classical example: course with only one “big” exam at the end

8

Formative (Strijbos, 2011)

- Contextualized and full picture of the learner's characteristics
- Integral part of a learning process
- Several times during a course using a multimethod approach
- Focus on cognitive, social and motivational aspects of learning
- Self-assessment and peer assessment are crucial

9

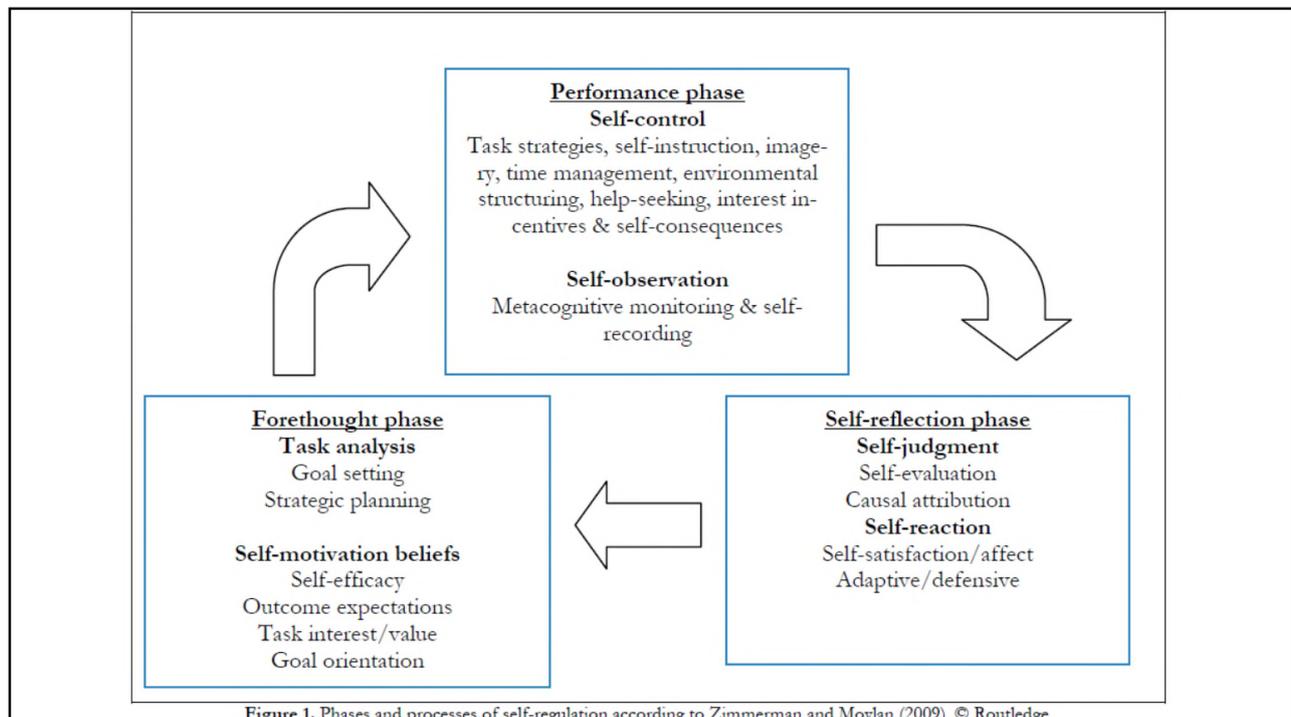
Self-regulated learning

10

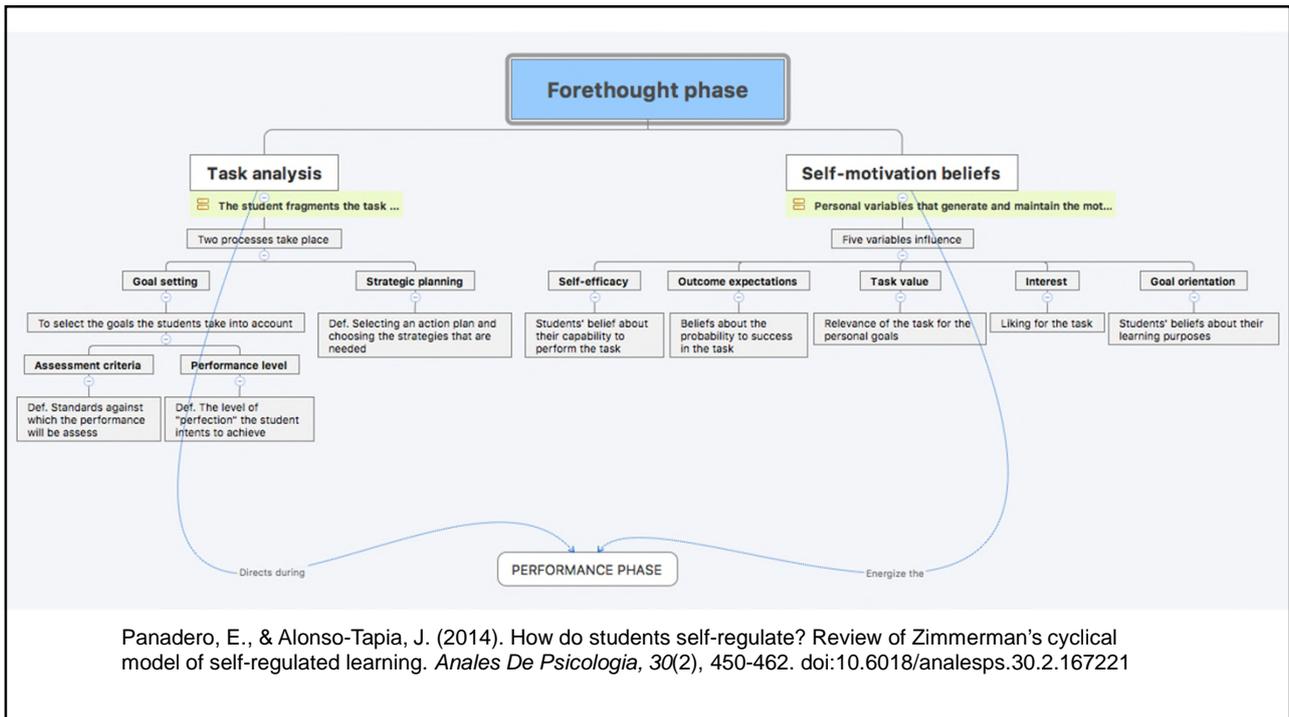
What is SRL?

- Zimmerman (2000): “Self-regulation refers to self-generated thoughts, feelings, and actions that are planned and cyclically adapted to the **attainment of personal goals**”.
- Learning strategies (cognitive + metacognitive) combined with motivation and emotional strategies.
- Two readings: Panadero & Alonso-Tapia, 2014; Panadero, 2017.
[SRL excellent umbrella. State-of-the-art ed. psych. research.](#)

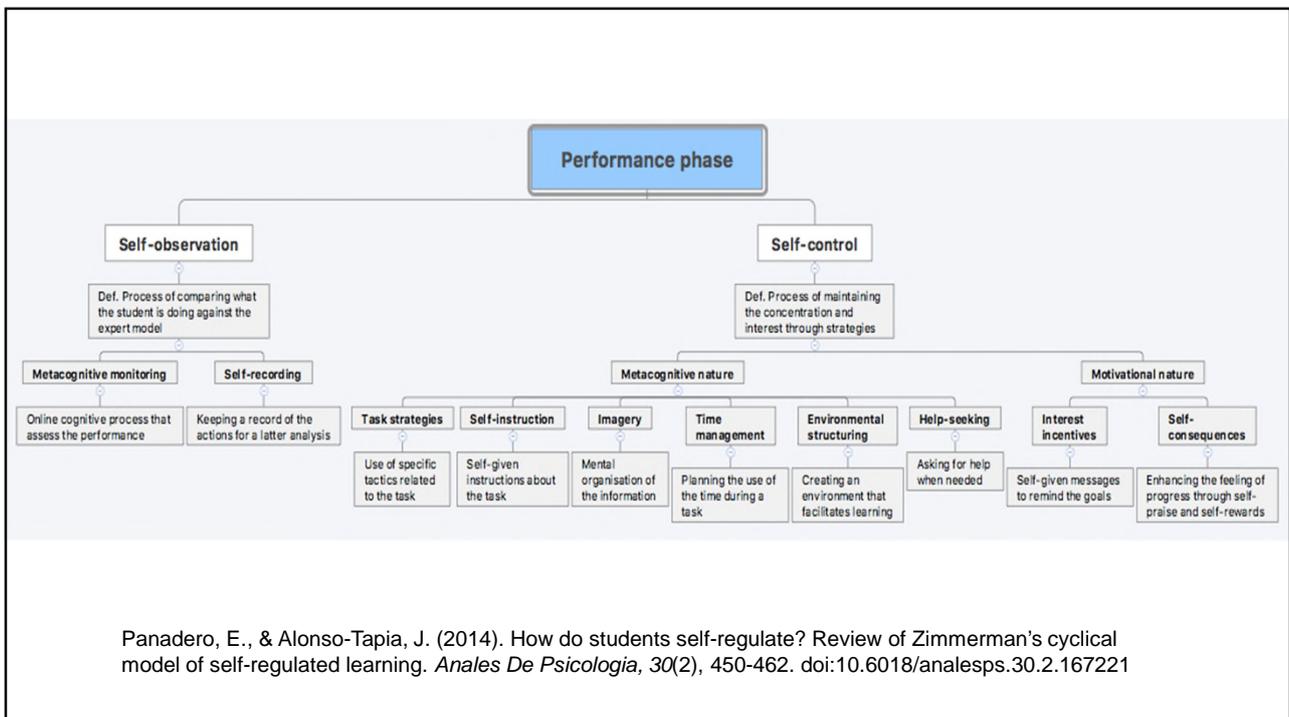
11



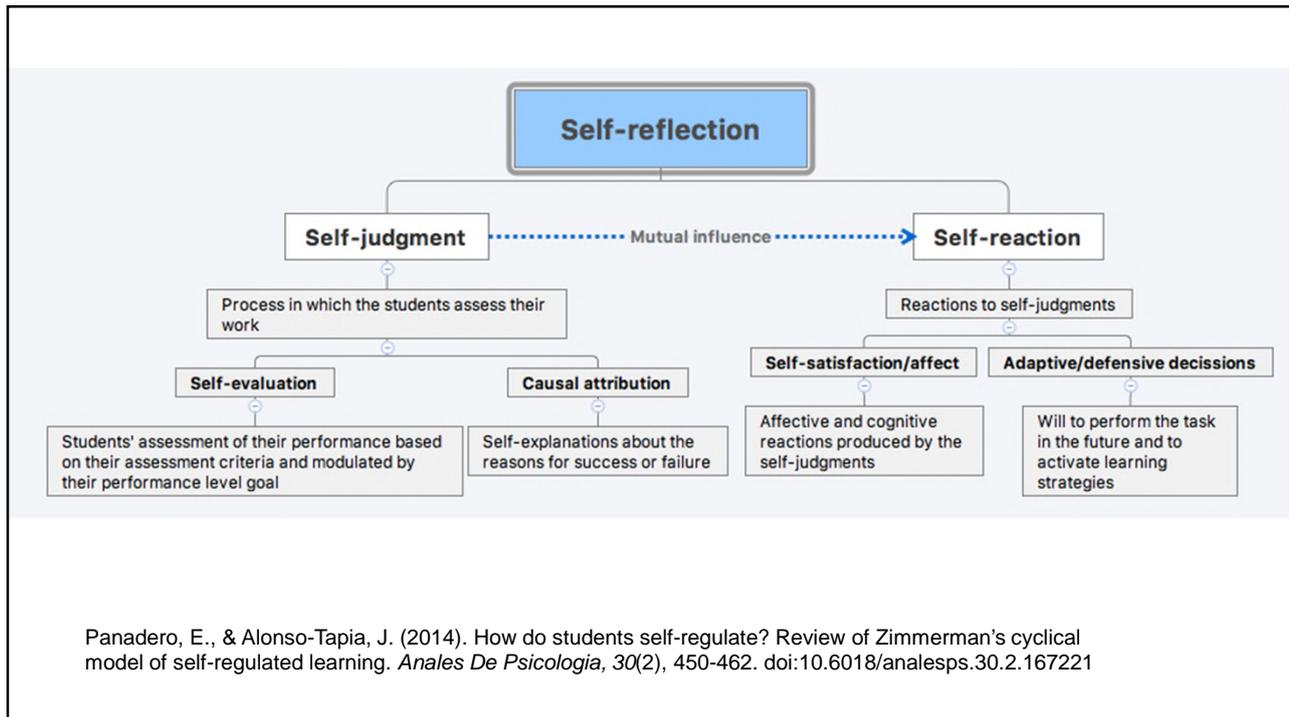
12



13



14



15

**Is self-regulation always positive
for learning?**

Think for a minute

16

How can you help your students to develop SRL skills?

Classroom climate
 Providing learning goals and assessment criteria
 Being a co-regulator
 Formative feedback

17

Teacher as co-regulator

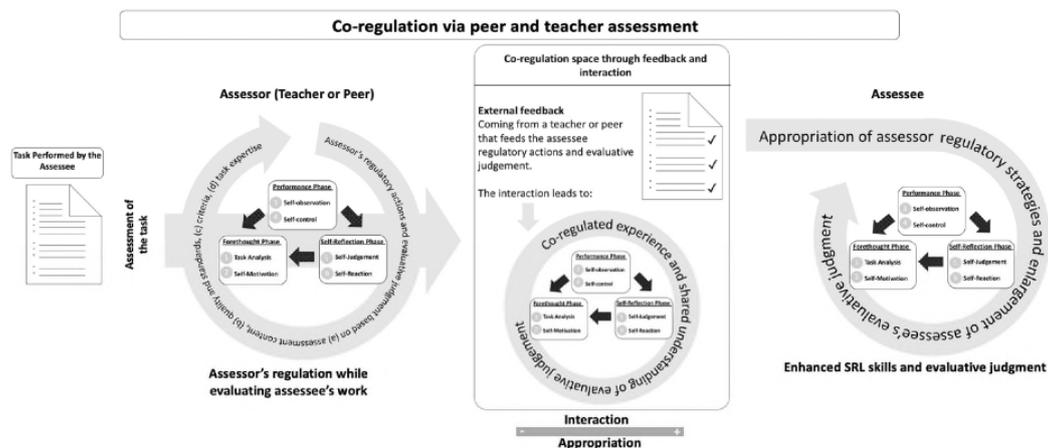


Fig. 5 Co-regulation and evaluative judgement

Panadero, E., Broadbent, J., Boud, D., & Lodge, J. M. (2019, December 04). Using formative assessment to influence self- and co-regulated learning: The role of evaluative judgement [journal article]. *European Journal of Psychology of Education*, 34(3), 535–557. <https://doi.org/10.1007/s10212-018-0407-8>

18

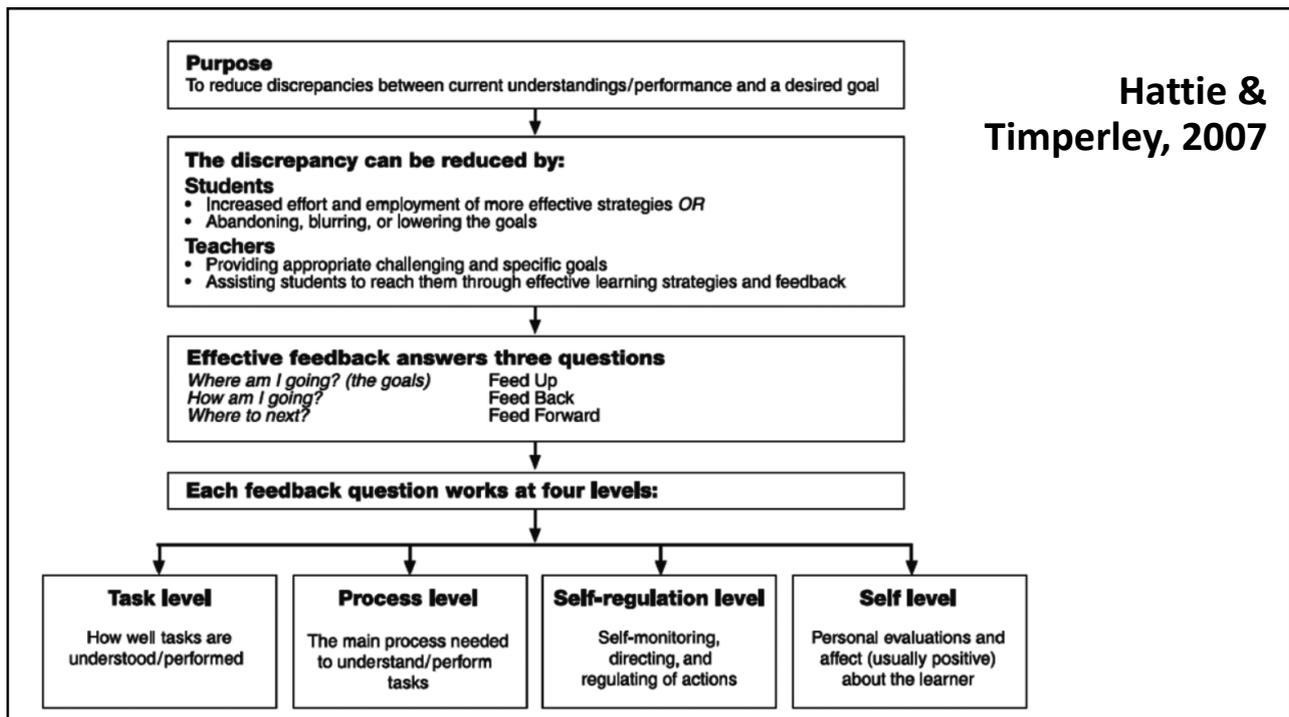
Feedback: basics concepts for a formative implementation

19

What is feedback?

- **Feedback** occurs when outputs of a system are routed back as inputs as part of a chain of cause-and-effect that forms a circuit or loop. The system can then be said to *feed back* into itself. (Wikipedia)
- Feedback in an educational context refers to any information provided to students about their performance. (Panadero et al., 2018)
- Is a grade feedback?
- This information may take different forms ranging from a score to detailed qualitative information (e.g. explaining in detail how to improve an essay).

20



21

(Some) Feedback main dimensions to consider

- Who provides the feedback (teacher, peer, self, technology based)
- Role of the student in the feedback event (provider, receiver)
- Setting in which it is delivered (e.g. individual, small group)
- Focus of the feedback (task, process, self-regulation, personal)
- How feedback is provided (e.g. written, oral)
- Opportunity provided to respond to feedback
- The micro view: the message in itself

22

Good feedback practice (for SRL)

1. Helps clarify what good performance is (goals, criteria, expected standards)
2. Facilitates the development of self-assessment (reflection) in learning
3. Delivers high quality information to students about their learning
4. Encourages teacher and peer dialogue around learning
5. Encourages positive motivational beliefs and self-esteem
6. Opportunities to close the gap between current and desired performance
7. Provides information to teachers that can be used to help shape teaching

Nicol, D., & McFarlane-Dick, D. (2006). Formative assessment and self-regulated learning: A model and seven principles of good feedback practice. *Studies in Higher Education, 31*(2), 199-218.
<https://doi.org/10.1080/03075070600572090>

23

Feedback does not happen in a vacuum
The importance of the student context and the
interactions

24

Uptake of feedback or agentic use of feedback

25

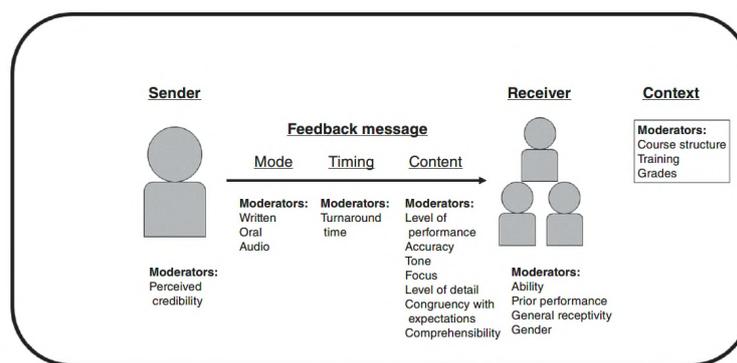


Figure 24.1 An overview of factors moderating students' engagement with feedback.

Jonsson, A., & Panadero, E. (2018). Facilitating students' active engagement with feedback. In A. A. Lipnevich & J. K. Smith (Eds.), *The Cambridge handbook of instructional feedback*. Cambridge University Press.
<https://doi.org/10.1017/9781316832134.026>

26

Final questions

- 1) Why do I assess the way I do it? (instr. goals & axis)
- 2) Do I consider personal & contextual variables?
- 3) How many of the 7 FB principles do I follow?
- 4) Do I “feel” my students regulate in my course?
- 5) Do I gave FB when it still can make a difference?

27

Assessment: foundations and related concepts

THANKS!
¡GRACIAS!

Ernesto Panadero

ernesto.research@gmail.com

Ikerbasque Researcher, Universidad de Deusto (Spain)

12th November 2021

Education,
Regulated
Learning &
Assessment

group

28