# Know Your Choices:

# Exploring How Instructors Support Student Autonomy Through Assessment Design

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# One of Many

Create multiple assignment opportunities that students can select from. Students should not be expected to do all of them. The assignments themselves are relatively well specified, with clear components and expectations.



 Choice overload Grading workload





The mode of assessment is defined, but students are able to select topics of their choice within the relevant content space of the course.



Grade # Effort # Learning · Risk-avoidance



The assignments are defined, but students can select whether they'll be shared in a public forum (blog, class discussion forum), or privately with the instructional staff (journal).



Belongingness



 Community-management · Grading workload



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Students are empowered to create their own assignment(s), including defining scope and scale.



Identity-exploration Creativity



 Grade ≠ Effort ≠ Learning Non-standardized evaluation scheme



Gameful pedagogy promotes student engagement and intrinsic motivation through the thoughtful use of instructional design mechanics to support autonomy, belongingness, and competence (Aguilar, Holman, & Fishman, 2015; Fishman et al., 2013; Reeve, 2009; Black & Deci, 2000). Here we focus on mechanisms to support autonomy.

We analyzed syllabi from 19 unique gameful courses at the University of Michigan experimenting broadly with gameful learning. Each instructor created assessment designs intended to support student autonomy, but did so in different manners, and to differing degrees. Looking across all courses, we identified nine different ways instructors supported student choice in these courses, and highlight observed strengths and weaknesses of each approach. The characteristics are not mutually exclusive.

#### REFERENCES

Aguilar, S. J., Holman, C., & Fishman, B. J. (2015). Game-Inspired Design: Empirical Evidence in Support of Gameful Learning Environments. Games and Culture, 1555412015600305.

Black, A. E., & Deci, E. L. (2000). The effects of instructors' autonomy support and students' autonomous motivation on learning organic chemistry: A self-determination theory perspective. Science Education, 84(6), 740-756.

Fishman, B. J., Deterding, S., Vattel, L., Higgen, T., Schenke, K., Sheldon, L., ... Aguilar, S. (2013). Beyond Badges & Points: Gameful Assessment Systems for Engagement in Formal Education. In Games + Learning + Society 9.0. Madison,

Reeve, J. (2009). Why teachers adopt a controlling motivating style toward students and how they can become more autonomy supportive. Educational Psychologist, 44(3), 159-175.



# Specialize

Assignments build around a core set of learning objectives, and then allow student specialization and interest to direct advanced learning.



 Identity-formation Content mastery



Varied learning outcomes

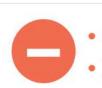


### **Extra Lives**

Students are allowed multiple tries to achieve particular types of assignments. They receive feedback on their efforts each time, and are able to build mastery through repeated attempts.



 Competence-support Mastery-orientation



 Grading workload • Low initial effort



# Team Up!

Students are able to decide to take on some assignments in a collaborative mode. This may take the form of choosing to do a pre-defined group project, or being able to decide to do an individual project as a group.





 Attribution Varied learning outcomes



## DILLICUITY

Students must select from pre-defined assignment pathways that address the same learning objectives, but require different types of effort, and therefore, different levels of risk in order to show competency.



 Competence-support • Risk-taking



• Risk-avoidance



## Day witem

The assignments are pre-defined, but students are able to decide when, and often in what order, they will complete them.



Time management

 Procrastination Grading workload



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Students must do a certain number, but not all, of the assignments within a defined category.



 Time management Competence-support
Grading workload



Procrastination

