Gamification
motivating language learning with gameful elements

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What is it?

Gamification is a methodological strategy that uses “game design elements in non-game contexts” (Deterding, Dixon, Khaled, & Nacke, 2011, p. 10). The purpose of gamification is to engage people, motivate action, promote learning, and solve problems (Kapp, 2012). There are other educational approaches that use playful components but are different from gamification, such as game-based learning or serious games. In those two cases, all kinds of games (digital video games, table games, outdoor games, etc.) or educational games are used to achieve a learning goal. Within the language learning area, Reinhardt (2019) opts for the global concept of ‘gamefulness’ which embraces all types of vernacular games, serious games, and gamification.

Different taxonomies of the game elements have been classified for gamification purposes. Among these classifications, Werbach and Hunter (2012) present the game elements in a hierarchy, the Dynamics, Mechanics, and Components (DMC) Pyramid, identifying three categories: dynamics, aspects such as constraints, progression, or narrative; mechanics, basic processes that drive the action forward such as challenge, competition, or rewards; and components,
the specific instantiations of mechanics and dynamics such as avatars, badges, leaderboards, levels, or points.

As mentioned in Pujolà and Appel (2020), Kapp (2012) distinguishes two types of gamification: structural and content. Structural gamification refers to a model in which the structure of the learning tasks is gamified without modifying the content. The main aim of this type of gamification is to engage students through rewards using, for instance, Points, Badges, and Leaderboards (PBL). Content gamification, on the other hand, implies changing the learning content to make it more like a game or video game, such as including a narrative in which challenges related to the story must be solved to achieve the objectives of the course.

**Examples**

The following examples are Spanish content gamifications that integrate different game elements and use a variety of technologies:

- Acedo’s (2019) *La liga de la justicia y los superhéroes españoles* (Justice league and Spanish superheroes); and
- Niño’s (2020) *Ciudad de todos* (City for all).

These projects have the following relevant features in common:

- they integrate and intertwine various game elements to make sure that different types of learners interact positively with them;
- PBL are not the only game elements introduced so their gamification interventions go beyond the most common reward mechanism;
- the narrative in each case helps to integrate the game elements, the learning tasks, and the use of technologies in a coherent way;
• the goals to be achieved in the gamified tasks are moderately challenging with increased complexity and clear progress; and

• feedback and rewards are provided within a short time.

Benefits

Gamification can be used in all educational contexts from primary to adult education and can be applied in any pedagogical approach: communicative, flipped classroom, or task-based learning. Gamified educational environments should create learning conditions to increase students’ engagement, to activate their learning, to develop their autonomy, and thus, to motivate them.

The development of motivation in gamification starts with the students’ involvement with the gamification processes, with their desire to take an active part in them. In that sense, choice is a relevant component by which students learn how to take decisions for successful learning and also constant feedback, as happens in video games, is indispensable for students to advance in the gamified learning context. A well-planned gamified instructional design allows for the development of multiple learning strategies and language learning competences.

Research to date has mostly focused on student engagement, motivation, or affective factors with mixed results (Homer, Hew, & Tan, 2018; Sailer, Hense, Mayr, & Mandl, 2017). As for language performance, most studies report some positive outcomes mainly on vocabulary learning according to Dehghanzađeh et al. (2019) or others on the development of pronunciation (Barcomb & Cardoso, 2020).

How can it be implemented?

Gamification can be implemented with or without technology. Nevertheless, the use of technology helps teachers keep record of the whole process in a gamified context and makes the teaching and learning processes more accessible. There
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is a diverse variety of platforms, apps, and tools for teachers to use when implementing gamification in their teaching. Four approaches to use different Information and Communication Technologies (ICTs) when gamifying can be established according to Pujolà and Appel (2020):

• gamification platforms that help to set up and manage gamified lessons or entire courses: Classcraft, ClassDojo, or Gradecraft;

• gamified quizzes that help teachers improve lesson interaction and also build gamified tests for assessment purposes: Kahoot!, Socrative, or Quizalize;

• game-like features and plugins introduced in regular virtual learning environments such as Moodle: e.g. Quizventure, Level Up!, or Ranking Block; and

• different ICTs used when implementing a gamified teaching intervention: Voki, Makebadges, Genially, or Pointagram.

There are also other learning platforms like Duolingo, Drops, or Memrise, mainly for self-learning with a rather traditional rote learning approach, that use gamification elements such as points, levels, or trophies to encourage users to continue progressing through the contents of the course practising mainly vocabulary, grammar, pronunciation, and translation (for further information on these platforms, see Jueru, Ferrão, Vitória, & Ferrão Silva, 2020).

Looking to the future

Gamification is a pedagogical trend with great potential and a positive effect on student engagement but it is still to be proved that the increase of motivation results in better learning outcomes (Dehghanzadeh et al., 2019). However, the constant increase of gamification teaching experiences in language education should
help to carry out more research studies dealing with issues such as learning gains in different language areas. More empirical and systematic studies should focus on the development of language skills and language learning strategies that confirm gamification as an effective methodological strategy.

References


**Resource**
