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# Operation P.E.A.C.E.

Practical & Entertaining Adventure for Conflict-resolution and English-teaching

# Gamification Handbook

Sponsored by the U.S. Department of State, English Language Innovation Fund







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Operation P.E.A.C.E.: Gamification Handbook

The Gamification Handbook is a handy visual support tool for implementing gamification and "serious games" in English teaching on the topic of conflict resolution and peace building. It is aimed to be used by English teachers interested in developing games for their students, as well as for any person willing to use the power of games in teaching and learning. The Handbook should be used together with other literature on gamification, game design, and "serious game" development.

The Gamification Handbook was developed by American Councils for International Education in Moldova, Moldovan Environmental Governance Academy (MEGA), and Academia Nicolae Dumitrescu (AND) as part of the project "Operation P.E.A.C.E.: Practical & Entertaining Adventure for Conflict-resolution and English-teaching" implemented in Moldova in October, 2015, and sponsored by the U.S. Department of State, English Language Innovation Fund.

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### INTRODUCTION

Dear Reader,

We, the American Councils for International Education in Moldova, Moldovan Environmental Governance Academy (MEGA), and Academia Nicolae Dumitrescu (AND), the organizers of the project "Operation F.E.A.C.E. Fractical and Entertaining Adventure for Conflict-resolution and English-teaching" offer you the Gamification Handbook.

Gamification Handbook is a handy compendium of the most important tools, guidelines, and frameworks to support you in implementing the concept of gamification and "serious games" in your activity of teaching English with specific focus on the topic of conflict resolution and peace building. The Handbook is not a book or a manual on teaching what is gamification and how to use it. It is a visual support tool to recall and implement the main aspects of gamification and "serious game" development. Therefore for an in-depth understanding of this topic the Handbook should be supplied with other literature.

We hope that the Gamification Handbook will be of good use to you in your activity of teaching English through games on the topic of conflict resolution and peace building. And we are always ready to receive your feedback on how we can make the Gamification Handbook even better and more practical and useful to you.

Happy reading, game-designing, and playing!

Yours, American Councils, MEGA, and AND



# GAMIFICATION: WHAT AND WHY

### Definition of Gamification.



#### Main Reasons for Implementing Gamification.





## GAMIFICATION AND LEARNING

### The Learning Pyramid.

Average Retention Rates



Adapted from National Training Laboratories. Bethel, Maine

**Conflict Resolution Modes that can be integrated into Games.** 



Focus on other's needs and mutual relationships



### Key Questions to Consider for Gamifying Learning Experience.

Purpose	<ul> <li>What problems are you trying to solve with games or by gamifying your learning?</li> </ul>
Narrative	<ul> <li>How can you turn your content into a compelling story that will not only provide context for the learning but allow learners to actively interact with the content?</li> </ul>
Progression	<ul> <li>What content could you organize into playing levels of increasing difficulty?</li> </ul>
Motivation	<ul> <li>How can you reward and motivate your learners based on real outcomes vs. simple completion of tasks?</li> </ul>
Time	<ul> <li>How can you use the concept of time within your games to mimic real-life situations?</li> </ul>
Freedom to Fail	• Where could you leverage gaming elements as a means of providing a safe environment where learners can truly learn from their mistakes?
Feedback	<ul> <li>Can you rethink your learning experience design to incorporate immediate game- element feedback on an ongoing basis?</li> </ul>
Tools	<ul> <li>What type of gamification experience could you create that addresses your problem statement? What game tools can you use?</li> </ul>



### Main Criteria for Effective Learning Games.



#### Satisfaction of Basic Human Desires by Gamification.

Green dots – the primary desire a particular game mechanic fulfills; blue dots – the other areas that it affects.

Game Mechanics	Human Desires					
	Reward	Status	Achievement	Self Expression	Competition	Altruism
Points						
Levels						
Challenges			•		•	
Virtual Goods		•		0		
Leaderboards					•	
Gifting & Charity			•			0



# GAMIFICATION AND GAMES

#### **Differences between Games and Gamification.**

Games	Gamification
Games have defined rules and objectives	May just be a collection of tasks with points or some form of reward
There is a possibility of losing	Losing may or may not be possible, because the point is to motivate people to take some action to do something
Sometimes just playing the game is intrinsically rewarding	Being intrinsically rewarding is optional
Games are usually hard and expensive to build	Gamification is usually easier and cheaper
Content is usually morphed to fit the story and scenes of the game	Usually game-like features are added without making too many changes to your content

# Gamification is Integration of Parts of a Game into Specific Context.



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# GAMIFICATION DESIGN FRAMEWORK

### Werbach's 6D Gamification Design Framework.

## **6D FRAMEWORK**





# 6D: DEFINE GOAL AND OBJECTIVES

### Key Steps of Elaborating Gamification Objectives.

List and rank possible objectives for your gamification initiative.



Go through the list and review your objectives. Try to categorize them and limit to maximum 3.



### Criteria for S.M.A.R.T. Objectives.





## 6D: DELINEATE TARGET BEHAVIORS

#### Main Ways to Stimulate the Desired Behavior in Players.



### Fogg's Behavior Change Model.





## 6D: DESCRIBE THE PLAYERS

### Key Needs of a Player to Take into Consideration.





# 6D: DEVISE ACTIVITY LOOPS

#### Player's Journey within a Game.



#### Engagement Loop of a Game.



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## 6D: DON'T FORGET THE FUN

#### Different Types of Fun that can be used in Games.





### 6D: DEPLOY APPROPRIATE TOOLS

#### **Hierarchy of Gamification Elements.**

**DYNAMICS** Big-picture aspects, "grammar" of the game

Constraints;
 Emotions;
 Narrative (Storyline);
 Progression;
 Relationships

**MECHANICS** Processes that drive action forward, "verbs" of the game

Challenges;
 Chance;
 Competition;
 Cooperation;
 Feedback;
 Resource Acquisition;
 Rewards;
 Transactions;
 Turns;
 Win states

TOOLS

Specific instantiations of mechanics and dynamics, "nouns" of the game

Achievements;

 Avatars;
 Badges;

 Epic Challenges / Boss Fights;

 Collections;
 Combat;
 Content Unlocking;
 Gifting;
 Leaderboard;
 Levels;
 Points;
 Quests;

 Social Graph / Network;

 Yetnams;
 Virtual Goods



#### **Examples of Applying Gamification Elements in Learning.**

#### POINTS

- •Use points to indicate current status and progress in learning.
- •Points should unlock access to new content and levels.



#### ACHIEVEMENTS

- •Make them meaningful for players and difficult to ubtain.
- •Allow players to show off their achievements to others.



#### LEADERBOARD

- •Make sure the leaderboard displays the results that are important for learning goals.
- •Create several leaderboards: for all players, for friends, for specific region, etc.



#### LEVELS

- •Break down the player's journey into several levels with prerequisites to be achieved for each level.
- •Allow players to level up based on their active participation and learning results.



#### CHALLENGES

- •Configure the challenges based on the actions and behaviors that you're tracking.
- •Vary the length, difficulty, and completion time of the challenges.



#### TIME-BASED ACTIVITIES

- •Use time constraints to create a sense of urgency within players.
- •Useful when the learning goal is prioritization of certain tasks.



#### **FREEDOM TO FAIL**

- •Design multiple attempts into game interactions.
- Provide positive instructional feedback when players fail on the first attempt, and give them opportunities to try again.



#### NARRATIVE

- •Set up a storyline that unfolds gradually throughout the gaming experience.
- •Create a compelling plot that creates a sense of tension and establishes a conflict. The learning opportunities lie within the conflict..



# GAMES & GAMIFICATION EXAMPLES

### **Conflict Resolution Vocabulary Game**



Link: https://www.teacherspayteachers.com/Product/Conflict-Resolution-Game-1100049

#### **Conflict Resolution Word Search**



Link: http://www.creducation.org/resources/cr\_word\_search/index.html



### Duolingo

	Tu árbol de Inglès Blácon	DePablo90 Bernal Passa & Marcus [] 0 Siguendi 1 Seguitore
	Fines Fines Proc	Tu progress en inglés  Tu progress en inglés  Thieder et rout i  Thie
TTA-		Práctica del día Dis el fono se pondó trate si re proficios dantevele. Practicar ahars e el 0 Testin el man El Freisareo coreo cuardo prácto practica:

Link: https://www.duolingo.com

### Khan Academy



Link: https://www.khanacademy.org



#### **Peacetown: A Conflict Resolution Game**



Link: http://www.childtherapytoys.com/store/product5458.html

#### **Social Conflict Game**



Link: https://shop.acer.edu.au/acer-shop/group/SCG



### The Conflict Resolution Board Game



Link: http://www.childtherapytoys.com/store/product431.html

#### The Talking, Feeling & Doing Conflict Resolution Card Game



Link: <u>http://www.childtherapytoys.com/store/the-talking-feeling-doing-conflict-resolution-</u> card-game-moreinfo.html



### **Trace Effects**



Link: http://traceeffects.state.gov

### **UN Global Compact Dilemma Game**



Link: http://designtoimprovelife.dk/finalist2011-48



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