Play projects

Approach	Play projects	
Introduction		
Project-based learning is a dynamic approach to teaching in which students explore real-world		
problems and challenges, simultaneously developing 21st Century skills while working in a small		
collaborative group. Play projects is a teaching approach where learning is affected via problem		
solving. Play projects are most successful in practical classes. Informational, research, creative and		
applied projects can be done within this format. Play projects allow students to reflect upon their own		
ideas and opinions, and make decisions that affect project outcomes and the learning process in		
general. The final product results in high quality, authentic products and presentations. Suitable for		
small and large groups.		
Aim	To enhance problem-solving potential with creative, analytical	
	and critical thinking skills	
Target group	First and second year students.	
Intended learning outcomes		
• effectively solve problems/complex professional tasks leading to appropriate and profitable		
decisions		
 deductive reasoning drawing conclusions from given information. 		
Description		
In a semester-long research project for a course, the teaching staff member establishes the research		
problem and assigns students distinct roles within their groups: one student is responsible for		
initiating and sustaining communic	cation with the rest of the group, another with coordinating	
schedules and organising meetings,	another with recording ideas generated and decisions made at	
meetings, and a fourth with keeping the group on task and cracking the whip when deadlines are		
approaching. The instructor rotates students through these roles, so that they each get practice		
performing each function.		
Students are split into two groups. The groups compete against one another to design a product/ to		
solve a problem etc. by applying give	en science principles and working within budgetary and material	
constraints. The fun and intensity	of a public competition encourages the team to work closely	
together to create the best design/solution possible		
At the end of the semester students publicly defend the appropriate and profitable developed		
solutions		
Preparation	Define a research problem.	
Resources and equipment	Not necessary.	
Success factors	To work successfully in groups, students need to learn how to	
	work with others to do things they might only know how to do	
	individually for example to assess the nature and difficulty of a	
	tack broak the tack down into stone or stages, plan a strategy	
	task, break the task down into steps of stages, plan a strategy,	
	manage time.	
	Students also need to know how to handle issues that only arise	
	in groups, for example, to explain their ideas to others, listen to	
	alternative ideas and perspectives, reach consensus, delegate	

	responsibilities, coordinate efforts, resolve conflicts, integrate
	the contributions of multiple team members.
Advantages	Provides high activity. Design skills are developed and the
	specialists will be more flexible and efficient in solving complex
	professional tasks in the future.
Disadvantages	Time consuming.
	May be difficult to bring all group thoughts together in
	agreement.
Additional information	This article by Yakovleva, O.N., Yakovlev, E.V. in 2016 ⁱ provides
	information about interactive methods of training, which
	encourage interest in the profession and promote the
	efficient acquisition of training materials
	On this link hosted by the Eberly Center at Carnegie Mellon
	University you will find Information about best practices for
	designing group projects and successful work in groups.