CREATE A TOWER GARDEN PROJECT PLANNER



PROJECT-BASED LEARNING | LIFE SKILLS



basic education Department: Basic Education REPUBLIC OF SOUTH AFRICA







PROJECT-BASED LEARNING GRADE 5 PROJECT PLANNER

Dear teacher and coach

If this is your first experience with E³, we hope that you will soon become as excited as we are. If it's your next round, you know what is waiting for you: lots of excitement from learners and their parents, some pushback from uninitiated colleagues and lots of hard work and on-the-spot problem solving as you deal with the day-to-day challenges and joyful surprises that Project-Based Learning brings into the classroom. Stay focused and stay enthusiastic – once you have a personal plan of action that suits your style and school, things do get easier.

You will notice that we have changed the method of planning as the large bulky Excel document was becoming a little unwieldy and difficult to use. This booklet replaces the spreadsheet and we believe is more user-friendly.

The step-by-step instructions have been bulleted and simplified, but we have also added guidance to the big E³ picture: a summary of why learners are even doing the activity, how PBL is helping and what the actual project is.

Most importantly, however, is an important reminder that we should all be remembering the compelling goal that is driving this programme:

To ensure that **youth unemployment** is seriously addressed, every South African must be gainfully employed as an entrepreneur, have a job or be pursuing an educational journey after school.

Please pay attention to the development of the competencies learners need to develop to flourish in a challenging post school environment.

To assist you we have included a table of the competencies that E³ is promoting to ensure our learners are ready and excited to enter a changing world. Use the reflection sheets at the end of this booklet to track your own development of competencies! Use the language in the table to guide your feedback.

Have fun - laughter truly is a powerful tool for unleashing a love for learning and the confidence that we need to be successful in an uncertain future.



RUBRIC TO RATE THE LEVEL OF COMPETENCIES AND E-MINDSET



	-		
	Character	Citizenship	I am very committed and involved in various activities in my community and people regard me as someone to follow in my circle of influence.
		Curiosity	I am very curious about everything around me and all my senses are alerted to possibilities which I always put into practice.
		Resilience	When I face challenges I am always excited about the possibilities and I always get up after I have been unsuccessful. I am always enthusiastic about what I have learned in the process.
CIES	Thinking	Creativity	I always use my imagination to come up with original ideas and/or I am always creating new things.
COMPETENCIES		Critical thinking	I always form judgements based on my ability to analyse and evaluate objectively.
COMI		Reasoning	I always think about things in a logical and sensible way and I always come up with conclusions easily.
	Collaboration	Collaboration	I always produce good work / things by working well with people (individuals or a team).
		Communication	I am always successful in conveying or sharing ideas or feelings.
		Empathy	I have a highly developed ability to understand and share the feelings of others.
	Agency	Growth mind-set	I am always open to new information and am always willing to change my beliefs, assumptions and actions as a result.
		Motivation	I always do what needs to be done without needing to be influenced by other people or situations. I always find a reason or the strength to complete a task, even when it is challenging, without giving up or needing anyone else to encourage me.
		Internal locus of control	I always have control of my life and my work is always my own and it is because of this that I experience success often. I never blame others or circumstances on my lack of success.
ET		Regulation of emotion	I always respond to the demands of a situation with emotions that are socially tolerable and sufficiently flexible to allow spontaneous or delayed reactions – whichever are appropriate.
E-MINDSET	Self-efficacy	Tasting success	I have always done things successfully enough to give me "the taste of success" that makes me motivated to want more and to believe that I can get it.
ч Ш		Socially relatable role model	I have always been fortunate to have been exposed to excellent role models that I can relate to and who make me motivated to want to be like them.
		Positive support	I have always been fortunate to have had someone who has been a positive support to me and who has encouraged me and seen me as a person.
	Solution seeking	Resourceful	I always find quick and clever ways to overcome difficulties and find solutions.
		Problem solving	I always find solutions to difficult or complex problems.

Students develop deep content knowledge, critical thinking, creativity and communi- cation skills in the context of doing an authentic, meaningful project.				
Students work on a prosolving real-world pro	n in			
Learners build a tower	garden and organise a towe	r garden expo.		
 Show picture of t they can understa Tell learners (before empty 2 litre both Divide the class in learners. Let them read the Ask the Natural S the class about di what plants need Show learners ho 	cience teacher to speak to fferent types of soil and	soils.	l classification of different eds and learn about what	
sk gardening expert to v	nt Activities isit school and explain (YouTube: vertical gardens)	Healthy eating for childre	NT AND OTHER SUBJECT INTEGRATION en. SA Food-based dietary s of children. Saving water.	
ving overheid litue hettle		EARNERS DOING?		
	es and vegetable seeds. Learr ens, and planting their seeds	-		
TEACHING TOOLS TO USE IN THIS LESSON (PROCESSES) lanting seeds and naking sure it is well- trigated	COMPETENCIES TO LOOK FOR IN THIS LESSON Teamwork Problem solving Communication Interpersonal skills Organisation and leadership skills Results orientation	RESOURCES YOU WILL NEED FOR THIS LESSON• Illustrated instructions• Writing paper• Writing paper• Pens, scissors, ruler• Markers• Hammer and nails• Twin or wire• Garden potting mix• Seeds (vegetable)• Plastic bottles• Text book• Worksheets	 CLASSROOM MANAGEMENT AND LAYOUT Give clear instructions Manage time Active classroom monitoring Organisation Give feedback 	

Ask follow-up questions. Know your learners.

EDUCATION

EMPLOYABILITY

cation skills in the cont	o content knowledge, critical ext of doing an authentic, me oject over an extended period olems or answering a complex	eaningful project.	
Learners build a tower	garden and organise a tower	garden expo.	
 Divide class into g Ask them to discussion school grounds) a successfully grow Let them complete plant seedlings. For homework refruit and vegetable to school for next 	ss where they think (on the tower garden could	• How to build a to	
ENRICHME A dietician or community issues around healthy ea		Healthy eating for childr	ent and other subject integration en. SA Food-based dietary is of children. Saving water.
Learners complete their	what are the L ower garden. For homework	EARNERS DOING? they must bring pictures o	of food or real food items.
 TEACHING TOOLS TO USE IN THIS LESSON (PROCESSES) Teacher's Project Notes Ability to explain major steps in the building process Integrate natural sciences, creative 	COMPETENCIES TO LOOK FOR IN THIS LESSON Teamwork Problem solving Communication Interpersonal skills Organisation and leadership skills Brainstorming	 RESOURCES YOU WILL NEED FOR THIS LESSON Illustrated instructions Writing paper Pens, scissors, ruler Markers Hammer and nails Twin or wire Garden potting mix 	 CLASSROOM MANAGEMENT AND LAYOUT Give clear instructions. Manage time. Active classroom monitoring. Organisation Give feedback

Seeds (vegetable)

Plastic bottles

Text book

Worksheets

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•

•

arts, technology and

languages.

•

Commercial

awareness

POSSIBLE EXPANDED LEARNING-OPPORTUNITY FOR THIS PROJECT

Learners can write books/stories to publish online about healthy eating, e.g. an

affluent girl who diets too much, a poor child who learns how to survive, etc.

EMPLOYABILITY EDUCATION

PROJECT-BASED LEARNING GRADE 5 P Students develop deep content knowledge, critical cation skills in the context of doing an authentic, me Students work on a project over an extended period solving real-world problems or answering a complex Learners build a tower garden and organise a tower	thinking, creativity and communi- eaningful project. d of time that engages them in x question.
 TEACHER ACTIVITIES FOR THIS WEEK Pack the foods/pictures brought by learners on a table. Ask learners to sort these items or pictures into different food groups. Teacher introduces class to Thumi. Let them read the story and lead the discussion afterwards. 	OUTCOMES TO ACHIEVE THIS LESSON Healthy eating exhibition Knowledge about food groups Knowledge about healthy eating
	CAPS ALIGNMENT AND ASSESSMENT AND OTHER SUBJECT INTEGRATION
A dietician or community nurse can organise a professional display about eating disorders	Healthy eating for children. SA Food-based dietary guidelines. Dietary needs of children. Saving water.
WHAT ARE THE L	EARNERS DOING?

Learners pack all the food items or pictures on the table provided and sort into different food groups. They write a letter to Thumi, giving advice for healthy eating.

TEACHING TOOLS TO USE IN THIS LESSON (PROCESSES)	COMPETENCIES TO LOOK FOR IN THIS LESSON	RESOURCES YOU WILL NEED FOR THIS LESSON	CLASSROOM MANAGEMENT AND LAYOUT	
 Poster with all the food groups SA dietary guidelines Cards with food groups written on them Pie chart to show 	 Teamwork Problem solving Communication Interpersonal skills Organisation and leadership skills Brainstorming Commercial awareness 	 Pictures or actual food items Writing paper Pens Table for display Text book Worksheet 	 Give clear instructions Manage time Active classroom monitoring Organisation Give feedback 	
POSSIBLE EXPANDED LEARNING-OPPORTUNITY FOR THIS PROJECTLearners can create pamphlets on healthy eating to distribute in the community. Teach learners to pickle vegetables, cook jam or can fruit. Interdisciplinary, lifelong learning, mind mapping, use of diverse tools.Image: Community of the second se				

Students develop deep content knowledge, critical thinking, creativity and communi- cation skills in the context of doing an authentic, meaningful project.			
	Students work on a project over an extended period of time that engages them in solving real-world problems or answering a complex question.		
Learners build a tower garden and organise a tower	garden expo.		
 Open conversation on the importance of water. Ask how the quality of water can be protected, and how we can save water and write answers on flash cards. Divide the class into groups and ask them to design a poster according to information on flash cards. Refer back to tower garden. Remind class to keep checking on tower garden, to water, etc. Help them to decide on day/hour to exhibit their tower garden and plan finer details. 	 OUTCOMES TO ACHIEVE THIS LESSON Importance of water Ways to save water Organising skills (tower garden expo) Poster design skills 		
ENRICHMENT ACTIVITIES A dietician or community nurse can organise a professional display about eating disorders.	CAPS ALIGNMENT AND ASSESSMENT AND OTHER SUBJECT INTEGRATION Water as an important basic need. Arts and Culture, Natural Science, Languages		

TEACHING TOOLS TO USE IN THIS LESSON (PROCESSES)	COMPETENCIES TO LOOK FOR IN THIS LESSON	RESOURCES YOU WILL NEED FOR THIS LESSON	CLASSROOM MANAGEMENT AND LAYOUT
 Information on the importance of water Research on saving water and the quality of water 	 Teamwork Problem solving Communication Interpersonal skills Organisation and leadership skills Brainstorming 	 Flip-chart paper Coloured Koki's Writing paper and pens Magazines Scissors Glue Textbook Worksheet 4.1 	 Guide class through the conversation about water and give time for ideas. Active classroom monitoring during poster design Clear instructions on what should appear on a poster.
POSSIBLE EXP Learners can prepare a sp present it at the exhibition	EMPLOYABILITY EDUCATION		

cation skills in the construction skills of the construction of th	eep content knowledge, critical ontext of doing an authentic, m project over an extended perio roblems or answering a comple	eaningful project. d of time that engages them	
• Help learners t garden exhibit	ver garden and organise a towe	OUTCOMES TO ACHIEVE	tower garden expo) S
			IT AND OTHER SUBJECT INTEGRATION
farming game.	load and play Hayday – digital	Water as an important ba	
	WHAT ARE THE rs, arrange chairs and welcome sched and learned in their poste		
TEACHING TOOLS TO USE IN THIS LESSON (PROCESSES) Explain reflection	 COMPETENCIES TO LOOK FOR IN THIS LESSON Teamwork Problem solving Communication Organisation and 	 RESOURCES YOU WILL NEED FOR THIS LESSON Tables, chairs, displays Finished tower gardens 	 CLASSROOM MANAGEMENT AND LAYOUT Guide class through putting up the exhibition. Give enough time

leadership skills Prestik, tacks for reflection ٠ Visitors (parents, • etc.) Worksheet 5 • POSSIBLE EXPANDED LEARNING-OPPORTUNITY FOR THIS PROJECT Learners can prepare a speech/presentation on the importance of water and EMPLOYABILITY present it at the exhibition to friends/parents.

		-
	REFLECTION	Contraction Contraction
DATE:	TOPIC:	
This activity went	t well because:	1
What I shall do di	ifferently the next time I do this is:	
I have learned the	e following about my:	
Technical Teachir	ng skills:	
Mindset:		

REFL	ECTION	EMPLOYABILITY EDUCATION
DATE: TOPIC	2:	
This activity went well because:		2
What I shall do differently the next I have learned the following about I		

Technical Teaching skills:

Mindset:

	REFLECTION	S ENTREPRENEURSHIP EMPLOYABILITY EDUCATION
DATE:	TOPIC:	
This activity went well beca	iuse:	3
What I shall do differently t	he next time I do this is:	
I have learned the following	about my:	
Technical Teaching skills:		
Mindset:		

	REFLECTION	EMPLOYABILITY EDUCATION
DATE:	TOPIC:	
This activity went well bec	ause:	4
What I shall do differently	the next time I do this is:	
I have learned the followin	g about my:	

Technical Teaching skills:

Mindset:

F	EFLECTION	EMPLOYABILITY EDUCATION
DATE:	ТОРІС:	
This activity went well becau	se:	5
What I shall do differently the	e next time I do this is:	
I have learned the following a	bout my:	
Technical Teaching skills:		
Mindset:		

REFLECTION		EMPLOYABILITY EDUCATION	
DATE:	TOPIC:		
This activity went	t well because:		6
What I shall do di	fferently the next tin	ne I do this is:	
I have learned the	e following about my	/:	

Technical Teaching skills:

Mindset: