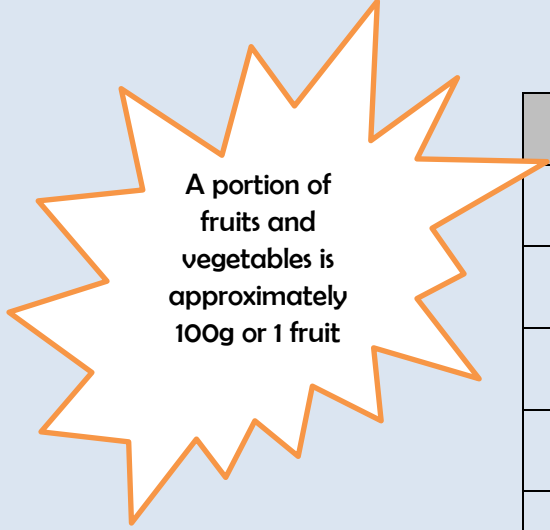


Project Design for PBL Task

Name of Project: Five-a-Day				
Subject: Mathematics			Teacher: Megel Barker	
Other Subject areas to be included if any: Health, Science				
Significant Content	Ratios, Budgeting, What is a Balanced Diet?			
21 st Century Competencies	Collaboration	X	Creativity and Innovation	X
	Communication	X	Critical Thinking	X
	Other			
Project Summary	Using a Farm Shop Price list, students will be required to spend a minimum amount of money in order to purchase enough fruits and vegetables to feed a family. The final shopping list must adhere to the five-a-day requirements of a healthy diet as well as not exceeding the budget. The target family will have six members and the amount of food purchased should be correct for two days. The amount of money available is \$10.			
Driving Question	How can we devise a shopping list that meets the budget and satisfy dietary requirements?			
Entry Event	Outside/Inside the classroom is transformed into a farm shop, with a farmer selling fruits and vegetables. A family enters the farm shop and role-plays the following problem. After looking at the price-list they realize that they are short of cash and they need to ensure that they buy just enough food to meet the health requirements of 5-a-day. They will challenge the class to create a clear shopping list that do not exceed the budget and meet the dietary needs of the each member of the family.			
Products	Individual		Specific Content (to be assessed)	
	Shopping List and Meal Plans		Knowing the portions of different fruits and vegetables for 5-a-day Calculating ratios for six people Calculation skills to \$10	
	Team		Competencies (to be assessed)	
A presentation outlining how the budget should be spent and why their option is the better one. Each team has four members.		Adaptability Time Management Organization and Presentation		
Public Audience	The school Nurse A financial consultant Mock shoppers			

Resources Needed	Equipment : Computers , laptops , scissors, pictures, mini whiteboards		
	On site Facilities: Mock farm shop,		
	Materials: Paper, fruits & vegetables		
	Community resources: library, internet, school nurse ,		
Reflection Methods	Survey		Journal/ Log
	Focus Group	X	Whole-class Discussion
			X

FARM SHOP PRICE LIST



A portion of
fruits and
vegetables is
approximately
100g or 1 fruit

FRUITS	
Apples	12 for \$1.25
Pears	5 for \$1.30
Strawberries	500g for \$1.20
Cherries	600g for \$1.10
Oranges	8 for \$1.50
VEGETABLES	
Broccoli	1kg for \$1.40
Carrots	1kg for \$2.20
Peas	1kg for \$1.55
cauliflower	1kg for \$1.80
Spring Cabbage	1kg for \$1.90

Script for Entry Event:

Scene: *A farm shop stocked with fruits and vegetables. The list shown above is displayed providing information about prices and quantities. The farmer is calling for attention to his wares encouraging passing customers to purchase his fruits for its health benefits.*

A family of six (6) enters the stall and proceed to enquire about prices and availability.

Farmer Brown: Good Morning Tracy!

Tracey and family in unison: Good morning Farmer Brown!

Farmer Brown: How are you all today? Need some fruits and vegetables?

Tracey: As a matter of fact, we do! We are all fine... thanks for asking

Farmer: This 5- a – day thing on the news is really quite important you know, I really am happy to see you coming down to my shop... Any holiday plans?

Tracey: Yes actually we do, we are flying out to Spain on Monday....which explains our reason for stopping by. We didn't plan our food well this time and we have no fruits or vegetables at home. But since we are only going to be in the house for tomorrow ...er ...Saturday and Sunday, I want to just purchase what we need. Being that we will be away and all that. My big problem is that in our rush to get here I forgot to grab enough money and I now have only \$10. But is that sufficient to buy enough fruits and vegetables and still get everyone their 5 – a- day?

Farmer Brown: Hmm... big problem there Tracey and I know how you feel about wasting food and money. I wish I could help you but as you know I am an old man and not very good at lists and meal plans.... Is there anyone who could help?

Freeze the scene and the problem is then shared with the class for discussions. In follow- up lessons a video explaining the five-a-day will be shared to provoke discussions on healthy eating and the impact budgeting and eating for health will have on food security globally.