<u>Hydroponics – Past Present and Future</u>

What	is Hydroponics?	
•	Hydroponics is the process of growing plants in	
•	There is no used in hydror	ponics systems
•	are added to the water to	replace what plants normally get
	from soil	
•	There are many different types of Hydroponics syste	ems
	We have	of hydroponics
	systems in the school	
	These five types make up our	different hydroponic
Our S	Systems	
Vertic	cal Garden	
•	Can have up to different p	plants
•	Nutrient water is pumped from thedown through each section.	of the tower and drains
Nutrie	ent Film	
•	Can have up to different p	lants
•	Nutrient water is pumped from athrough the pipes	near the bottom and flows
•	Flow of the water is controlled by a	at each bend of the pipes
Flood	Table	
•	Also called a	or an
•	Nutrient water is pumped from a reservoir	the flood table
•	The pump only runs for a	each day to maintain the water
	on the table	

Airpon	ics				
•	Nutrient water is pumped to	located near the	!		
	of the plan				
•	The water	drains back into the reservoir			
Aquap	onics				
•	This is the only system that we	use nutrient w	ater in.		
•	Nutrients are introduced to the plan underneath the flood table.	ts by the,	located		
•	Water is fact into				
The H	listory of Hydroponics				
The Ha	anging Garden of Babylon				
•	The Hanging Garden of Babylon are	believed to the hydroponic garden			
•	The Hanging Gardens were built in a	pproximately			
•	They are considered to be one of the	e seven			
The Flo	pating Gardens of the Aztecs				
•	The Aztecs of Central America practi	ced hydroponics out of			
•	They builtrafts	out of rushes and reeds, then piled	soil on these		
•	Some of the rafts were as long as				
•	This occurred in the				
Dr William F Gericke					
•	In the late 1920s/early 1930s, Dr Ger crops for large scale commercial pur	• • •			
•	He is the first to suggest the term hy	droponics.			
•	He combined two Greek words				
	•				

	•			
World	War II			
•		_ food in Europe or		
•	fresh food across the Atlantic was nearly In 1945, the USAF built a hydroponic farm in the			
•	These hydroponic farms provided	for the U.S. troops		
Mains	tream 1970s-80s			
•		in the late 1970s made hydropon		
Hydro	ponics and Submarines			
•	Currently, the USA has hydroponic farm	ns that cover as many	•	
•	The US Navy is growing fresh vegetable hydroponics systems to supply fresh ve	es on in specia egetable for the crews	lized	
The Fu	ture of Hydroponics			
•	Currently, plans are being drawn for us on the surfaces of other	ing hydroponics on	and	
•	Hydroponics will be used in areas such where it is difficult to grow plants using	as g traditional methods	,	