

Business Plan Engineering Tutoring

A Tinkering School

Objective:	Provide a facility and courses to tutor students doing design projects that combine Science, Math and Engineering Design using technology and computer Science (Software).
Customers <i>Will begin with the first two groups</i>	School will service the following potential customer base: <ul style="list-style-type: none">• After school parents who want a hands-on technology based curriculum for their children• Home School Parents for Hands-on Science/ Engineering learning• On-line learning organizations that need a Lab environment that they don't have• Adult education in Technology areas.• Existing after school programs• Summer School Students
Competitors	Existing after school programs that are held in local schools. <ul style="list-style-type: none">• http://afterschoolprograms.com/after-school-programs• http://www.kidscornerwinchester.org/• http://highlandsafterschool.org/ Newton Middle School children• http://www.masonrice.org/ School based afterschool program• Home Schooling on-line www.icademy.com/Homeschooling• Most like ours http://www.kidsborough.com/• MassBay community College Summer Program ... 2 weeks, \$300 STEM programs Grades 7,8
Uniqueness	<p>The courses focus on engaged hands on learning like Tinkering that is a playful style of design by making constant experiments and exploring new ideas in the design process.</p> <p>We focus on the interdisciplinary learning that integrates, Language Arts, Art, Engineering, Mathematics and Technology (STEAM) It is celebrating the iterative and divergent/ convergent process that is part of the design process.</p> <p>Learning experiences should reflect a view of science as influenced by individual experience as well as social and historical contexts. They should highlight forms of participation in science that are also familiar to nonscientist learners—question asking, various modes of communication, drawing analogies, etc. ... National academy of Science</p>
Courses:	The courses will be project base learning to fully engage the

Business Plan Engineering Tutoring

<p><i>Tie to the Common Cord Learning</i></p>	<p>student. They will work in teams and do final projects that will be demonstrated to family members.</p> <ul style="list-style-type: none"> • Sound Science and Technology • Robotic Puppets • Solving Engineering Design Challenges in Stories • Finding and Innovating the Bugs in your Life • Software Design and App Creation • Basic Circuit design • 3D Printers in today's Society • Mechanical CAM's and Clocks • Bike Repair and Tire Fixing • Home Appliance Repair ... Starting your own business • Instrument building for Weather Predicting • Solving Societal Issues
<p>Ages Groups:</p>	<p>The courses will be designed for the following age groups</p> <ol style="list-style-type: none"> 1. 6 to 9 grade Level 2. 3 to 5 grade Level 3. Adults
<p>Course Content:</p>	<p>Each course will be designed around the appropriate age group and include the following:</p> <ul style="list-style-type: none"> • Problem Solving Methods • Thinking Skills (Creative and Critical thinking, Questioning, Reflection and System thinking) • Collaboration • Entrepreneurship • What do Scientists, Mathematicians, and Engineers do
<p>Course Size</p>	<p>Each course will contain a max. of 10 students and no less than 7 students</p>
<p>Course Length</p>	<p>Each course will be 8 session over 8 weeks</p>
<p>Learning Goals</p> <p><i>By the end of this course, the students will be:</i></p>	<ul style="list-style-type: none"> • Clearly articulate the nature of technology/engineering/science as defined in the Common Core Framework • Use creative design process such as Brainstorming, Brain-writing, and Morphological Analysis • Create a learning environment that engages the students and excites them in learning the disciplines involved with the specific project. • Explain the relationship between science, math and technology/engineering

Business Plan Engineering Tutoring

	<ul style="list-style-type: none"> • Provide examples of the types of tasks that engineers perform • Describe the steps of the engineering design process • Design lessons that are interdisciplinary and utilize the engineering design process • Be able to model for students the use of productive questioning and meta-cognitive reflection, creative and critical thinking skills in the learning process. 																																																			
Budget	<table border="1"> <thead> <tr> <th data-bbox="488 543 1105 585">Expense Items</th> <th data-bbox="1105 543 1438 585">Expense</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 585 1105 621">Initial Capital cost for Instruments</td> <td data-bbox="1105 585 1438 621"></td> </tr> <tr> <td data-bbox="488 621 1105 657">Facility Set-Up</td> <td data-bbox="1105 621 1438 657"></td> </tr> <tr> <td data-bbox="488 657 1105 693">Monthly Facility</td> <td data-bbox="1105 657 1438 693"></td> </tr> <tr> <td data-bbox="488 693 1105 728">Internet/ Phone/Utilities</td> <td data-bbox="1105 693 1438 728"></td> </tr> <tr> <td data-bbox="488 728 1105 764">Marketing</td> <td data-bbox="1105 728 1438 764"></td> </tr> <tr> <td data-bbox="488 764 1105 800"></td> <td data-bbox="1105 764 1438 800"></td> </tr> <tr> <td data-bbox="488 800 1105 835"></td> <td data-bbox="1105 800 1438 835"></td> </tr> <tr> <td data-bbox="488 835 1105 871"></td> <td data-bbox="1105 835 1438 871"></td> </tr> <tr> <td data-bbox="488 871 1105 907"></td> <td data-bbox="1105 871 1438 907"></td> </tr> <tr> <td data-bbox="488 907 1105 942"></td> <td data-bbox="1105 907 1438 942"></td> </tr> <tr> <td data-bbox="488 942 1105 978"></td> <td data-bbox="1105 942 1438 978"></td> </tr> <tr> <td data-bbox="488 978 1105 1014"></td> <td data-bbox="1105 978 1438 1014"></td> </tr> <tr> <td data-bbox="488 1014 1105 1050"></td> <td data-bbox="1105 1014 1438 1050"></td> </tr> <tr> <td data-bbox="488 1050 1105 1085"></td> <td data-bbox="1105 1050 1438 1085"></td> </tr> <tr> <td data-bbox="488 1085 1105 1121"></td> <td data-bbox="1105 1085 1438 1121"></td> </tr> <tr> <td data-bbox="488 1121 1105 1157"></td> <td data-bbox="1105 1121 1438 1157"></td> </tr> <tr> <td data-bbox="488 1157 1105 1192"></td> <td data-bbox="1105 1157 1438 1192"></td> </tr> <tr> <td data-bbox="488 1192 1105 1228"></td> <td data-bbox="1105 1192 1438 1228"></td> </tr> <tr> <td data-bbox="488 1228 1105 1264"></td> <td data-bbox="1105 1228 1438 1264"></td> </tr> <tr> <td data-bbox="488 1264 1105 1299"></td> <td data-bbox="1105 1264 1438 1299"></td> </tr> <tr> <td data-bbox="488 1299 1105 1337"></td> <td data-bbox="1105 1299 1438 1337"></td> </tr> <tr> <td data-bbox="488 1337 1438 1465"></td> <td colspan="2" data-bbox="488 1337 1438 1465"></td> </tr> <tr> <td data-bbox="175 1465 488 1866">Business Plan Vision</td> <td colspan="2" data-bbox="488 1465 1438 1866"> <p>Developing a business plan requires attention to many details. The first and foremost is creating a vision. This is the time when one should avoid relying on impulse. Whilst developing a business plan, you need to first evaluate your product or service. Apart from this, there is also a requirement to study various market segments. Knowing details about your competition is a very important factor that helps in deciding the vision of the company. You need to step out of your own business frame to view all the pros and cons. Define a clear vision with values. Identify the mission statement based on this. Bring attention to short-term goals and present a clear picture of your priorities.</p> </td> </tr> </tbody></table>		Expense Items	Expense	Initial Capital cost for Instruments		Facility Set-Up		Monthly Facility		Internet/ Phone/Utilities		Marketing																																					Business Plan Vision	<p>Developing a business plan requires attention to many details. The first and foremost is creating a vision. This is the time when one should avoid relying on impulse. Whilst developing a business plan, you need to first evaluate your product or service. Apart from this, there is also a requirement to study various market segments. Knowing details about your competition is a very important factor that helps in deciding the vision of the company. You need to step out of your own business frame to view all the pros and cons. Define a clear vision with values. Identify the mission statement based on this. Bring attention to short-term goals and present a clear picture of your priorities.</p>	
	Expense Items	Expense																																																		
	Initial Capital cost for Instruments																																																			
	Facility Set-Up																																																			
	Monthly Facility																																																			
	Internet/ Phone/Utilities																																																			
	Marketing																																																			
Business Plan Vision	<p>Developing a business plan requires attention to many details. The first and foremost is creating a vision. This is the time when one should avoid relying on impulse. Whilst developing a business plan, you need to first evaluate your product or service. Apart from this, there is also a requirement to study various market segments. Knowing details about your competition is a very important factor that helps in deciding the vision of the company. You need to step out of your own business frame to view all the pros and cons. Define a clear vision with values. Identify the mission statement based on this. Bring attention to short-term goals and present a clear picture of your priorities.</p>																																																			

Client Needs	<p>Whilst developing a business plan, you need to think from the perspective of your customers. What is it that your customer will look for in your product/service? Is there any unique feature? Would they prefer to opt for some other product or service? Knowing what your target group wants and delivering beyond their expectations can ease the process for you. After all, you need your business to stand out from the crowd and knowing the pulse of your customers gives you many ideas to refine your business plan.</p>
Develop a Budget	<p>To develop a strong business plan, you need to plan your budget accordingly. For this, you need to financial forecast! The other elements of your business plan would depend largely on this. You need a clear picture of:</p> <ul style="list-style-type: none">• Industry• Competitors• Customers• Market Conditions <p>You need to be aware about the competitive pricing and how your product/service will add more value.</p>
Cover all areas	<p>You need to make a list of things that help develop a strong business plan by paying attention to the minutest of details. Whilst making your plan, add sections such as the company, product/service, the management team, marketing/sales pitch, competition, finances and more. Once done, get a second opinion from a person who can look at your business venture from a fresh perspective. In this manner, you can cover all areas including few points that may have been missed. Avoiding creating a solid business plan is not really a bright idea. Although there is a lot of time spent in its creation, a good, solid plan is a surefire way for a successful business!</p>