Agriculture

Year 8 Technology

Name: _____

Class: _____

This booklet works in conjunction with www.sactas8.weebly.com

Glossary of Terms

On this page you will need to write down the definitions for the terms, items and concepts explored in this unit.

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

Identification of the need

On this page you will need to identify and explain the problem you will be solving in this project.

Design Situation

Australia's waste is growing at twice the rate of its population and the country is now one of the worst in the developed world when it comes to generating rubbish. Growing your own food is one way to reduce your environmental impact as there are less components involved in producing your food and bringing it to your plate.

Design Brief

Refering to the design situtaion use the following words to complete the closed passage to define the problem you are solving in this project:

system	recycled	material	harvest	food	seasonal	watering

Design a _____ for growing a _____ vegetable or herb using a piece of _____ _____ as the vessel for growing it in.

This system must be portable and self _____.You must be able to _____ the crop to be able to make a _____ product and also produce marketing material.

Brain-Storm

In the space below you will create a brainstorm lead by your teacher to help explore ideas and themes for your project.

Past Project Design Analysis

Using images from www.sactas8.weebly.com you will need to do a PMI analysis on 3 self-watering pot plant designs

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Design Ideas

In the space below explore 4 design ideas for your self watering pot plant. Don’t forget to annotate and render your designs

Final Design & Justification

Document your final chosen design by drawing it neatly in the space below and justifying why you chose the design below.

I chose this design because

Exploring Seasonal Plants

In the space below you will investigate which fruit, vegetables and herbs you can plant each month in your climate zone

Plant Diary

In the space below you will need to photograph and explain the progress of the growth of your plant at 3 different stages.

Steps of Construction

Based on a class discussion with your teacher you will need to record the required steps of construction involved in this unit.

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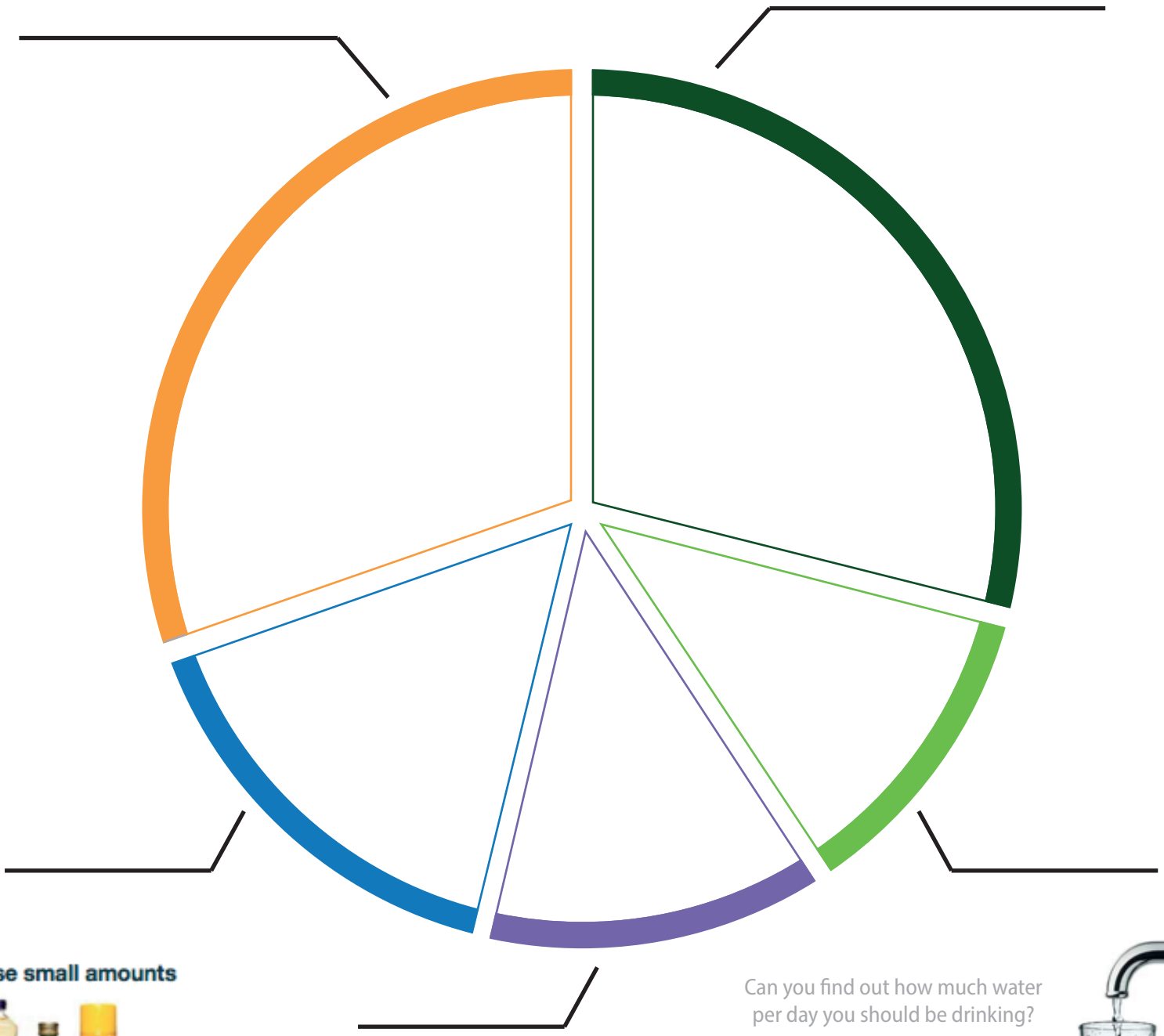
Tools & Techniques

In the space below you will need to draw the tools specific to the unit and explain how to use them correctly and safely.

Nutrition: The Food Pie Chart

In the food pie chart below label the 5 food groups, draw in foods that belong in each group and include the recommended serves per day. You can find this information through links on sactas8.weebly.



Use small amounts

Can you find out how much water per day you should be drinking?

Drink ..... Litres of ...../day

Return to page 3 and circle the dip you would consider a well balanced meal based on your new knowledge of the food pie chart.

Idea Generation & Development

In the space below design your healthy eating dip.
Consider ingredients, themes, appearance, flavour & identify where on the food pie chart your ingredients come from.

Ingredients:

Equipment:

Method:

Research Task

You will need to complete the research task for this unit which can be found on www.sactas8.weebly.com

Fold your research task
and affix it here.

Skill Development Task

In the space below list your ingredients and the correct metric measurements you are using for your dip.

Ingredient	Measure

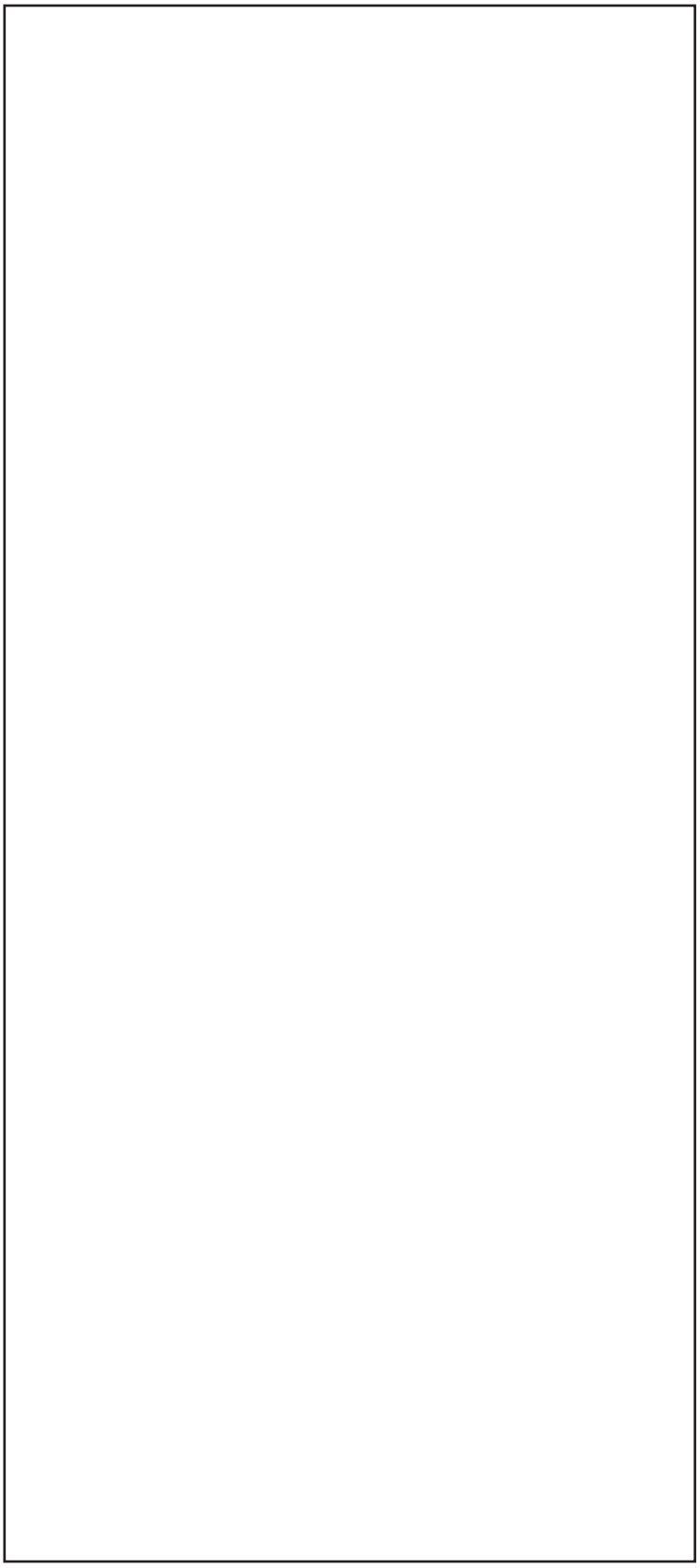
Use the FZANZ nutritional panel calculator to produce a nutritional panel for your dip. Draw this in the space below.

Free-Sketching Idea Page

This page is a ‘blank canvas’ to show ideas and for the design of your dip / packaging. Feel free to have fun and be creative!

Final Design

Document your final chosen design by drawing it neatly in the space below. You must include: Your company logo, a slogan, the name of your dip and the nutritional information panel as well as any other detail.



Lesson Recount

In the space below you need to recount a lesson you were given including all instructions, activities, tools and processes.

Finished Project Presentation

In the space below you need to insert a photo of your finished project.

Upload your work to instagram using #sactas
While you're there check out all the other fantastic student work on display!

* NB: Please respect this online forum in accordance with school policy.

Project Evaluation

Thinking critically about your project answer the questions below to evaluate the success of your project. Be honest!

Do I believe my project was successful? Why / Why Not?

What is one thing I learnt about nutrition during this project?

What is one thing I learnt about processes in this project?

How could I change my design to improve its nutrition, flavour or quality?

Free Space!

Woooo! Get drawing!

Unit Exploration Task #1

Go to the SACTAS website, watch the video nominated by your teacher and answer the questions given to you below.

Unit Exploration Task #2

Go to the SACTAS website, watch the video nominated by your teacher and answer the questions given to you below.

Year 7 Technology

Year 8 Technology






Your Practical work will be marked in the following 3 areas:

Stage 4 (Yr7 & Yr8) Practical: Marking Criteria	
	SPECIFICATIONS: Does it meet the design brief requirements and adhere to the specifications and limitations?
	DESIGN: Is it a well-suited and developed design presenting a high level of functionality, challenge and originality?
	EXECUTION: Does it show accuracy & execution of practical skills using appropriate techniques and processes to a highly competent level?

Stage 4 (Yr7 & Yr8) Practical: Marking Rubric	
Marks /60	**Mark Descriptor**
51-60	Demonstrates **very high** quality in all aspects of the project
41-50	Demonstrates **high** quality in most aspects of the project
31-40	Demonstrates **substantial** quality in most aspects of the project
21-30	Demonstrates **limited** quality in most aspects of the project
11-20	Demonstrates **very limited** quality with some incomplete work
1-10	Demonstrates **basic** quality with a majority of incomplete work
0	Non-submission of work

Stage 4 (Yr7 & Yr8) Written Task: Marking Rubric	
Marks /20	**Mark Descriptor**
19-20	Demonstrates **very high** quality in all aspects of the written task
17-18	Demonstrates **high** quality in most aspects of the written task
14-16	Demonstrates **substantial** quality in most aspects of the written task
11-13	Demonstrates **limited** quality in most aspects of the written task
7-10	Demonstrates **very limited** quality with some incomplete work
1-6	Demonstrates **basic** quality with a majority of incomplete work
0	Non-submission of work

Stage 4 (Yr7 & Yr8) Folio: Marking Rubric	
Marks /20	**Mark Descriptor**
19-20	Demonstrates **very high** quality in all aspects of the project folio
17-18	Demonstrates **high** quality in most aspects of the project folio
14-16	Demonstrates **substantial** quality in most aspects of the project folio
11-13	Demonstrates **limited** quality in most aspects of the project folio
7-10	Demonstrates **very limited** quality with some incomplete work
1-6	Demonstrates **basic** quality with a majority of incomplete work
0	Non-submission of work

Additional Comment: