



ACTIVITY BOOKLET

Year Four

Note to the Teacher

Prior to your excursion to Brownes Dairy, we encourage you to share one or more of the following activities with your class. The activities below represent a sample and there is no requirement to complete all activities.

- Have the class prepare a K-W-L chart about what they Know about cows, what they Want to know and for when you return, what they Learned.
- Research and learn about what happens in the Dairy Factory: milk, pasteurisation, homogenisation and separation.
- Read books and watch multimedia documentary about the process of milking cows on the farm. Students sort out a pictorial diagram of the steps in the process.
- Watch a movie documentary about a cows digestive systems or other educational material. Students draw and label the system on a cow picture.
- Students make their own clay cow sculptures. These will be painted and displayed in class or the school library.
- Students to present their research and understanding on a poster. This will include a diagram of the digestive system and a technological system.
- Students to organise a class list of questions to ask the Dairy farmer.
- Students to write a letter to the Dairy farmer.
- Identify animals or crops produced on farms. What products do farms provide communities? What products do communities provide farms? If possible, have the children research the information.
- Read stories about dairy animals or farm family life.
- Have the students write about a day in the life of a Dairy cow and from the animal's point of view.
- Identify animals or crops produced on farms. What products do farms provide communities? What products do communities provide farms? If possible, have the children research the information.
- Read stories about recycling.

- Set up a collection system for milk cartons and plastic containers to show how these materials can be recycled.
- Discussion about the social and environmental impact of recycling.

Post Excursion Activities

- Compose and send a class thank you letter to Brownes Dairy and the Dairy farmer. Include student artwork, illustrations, work samples, drawings and tell us what your favourite part.
- Have students draw or paint their favourite part at Brownes Dairy Factory Tour.
- Create a class story, poem, class book, report using technology to create multimedia presentations.
- Place an excursion recount article in the school's newsletter.
- Class excursion photograph display in the classroom.
- Dairy cooking activity.
- Create a class book about the Brownes Dairy excursion.
- Students to write a journal entry about the excursion experience.
- Student self-reflection.
- Recount.
- Class cooking day including dairy products.
- Class favourite milk recipe book.
- Explore further topics on recycling at school, home, and the community.
- Integrate agriculture into the Health and nutrition lessons.
- Investigate jobs in agriculture.
- Use recycled milk bottles, cartons and yoghurt containers to create a Dairy farm.

Year Four

Teacher Resources

Prior to School Tour

The Cow Machine

Cows are often described as a 'machine'. They have a rather unusual digestive system that changes grass into milk. The key to this is that they have four stomachs.

Explain what each part of the stomach does in the process of the digestion of grass.

1. Rumen (roo-men) _____

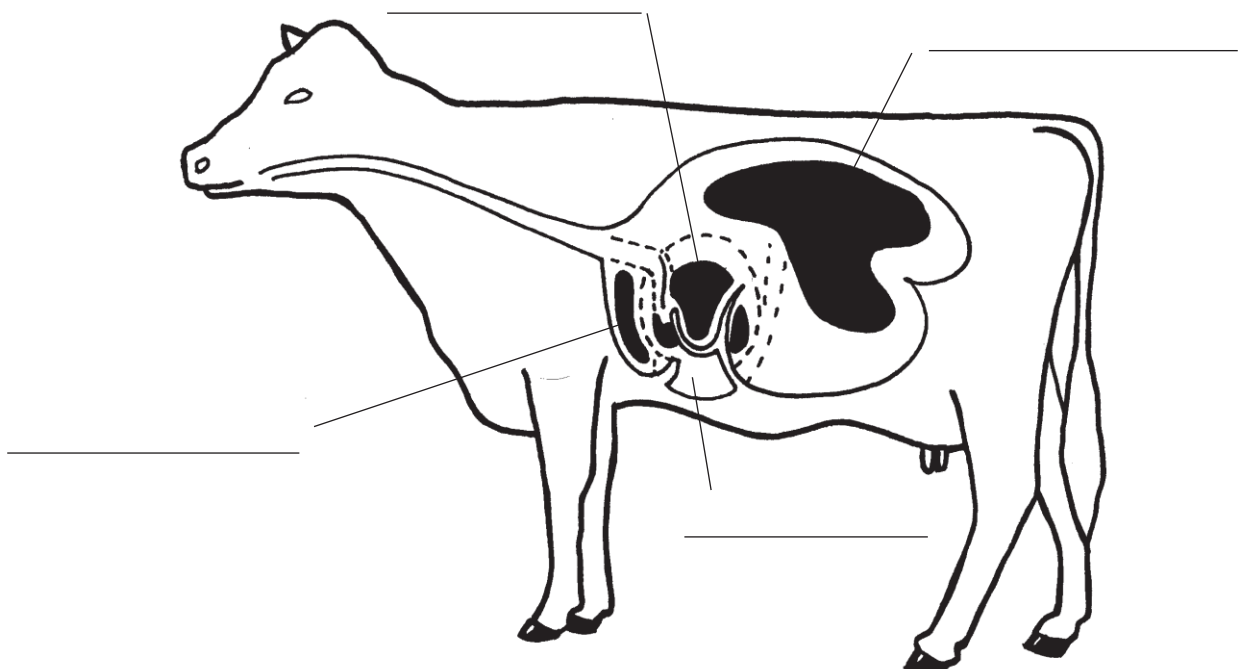
2. Reticulum (re-tick-you-lum) _____

3. Omasum (oh-may-sum) _____

4. Abomasum (ab-oh-may-sum) _____

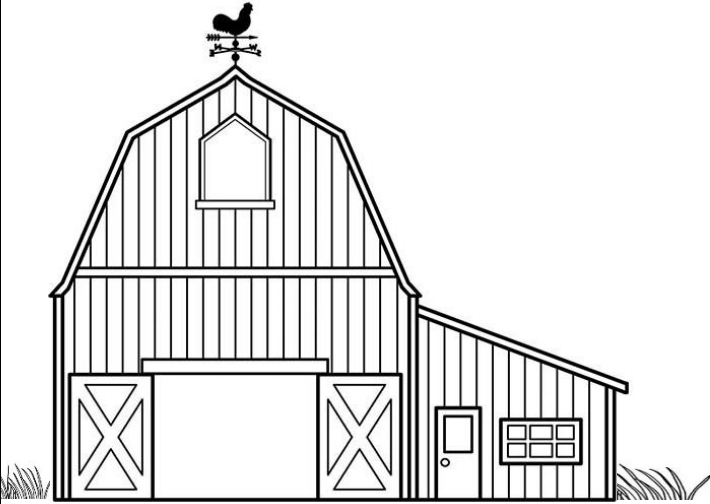
5. Cows spend eight hours a day chewing their _____

Label the four stomachs on the diagram below.



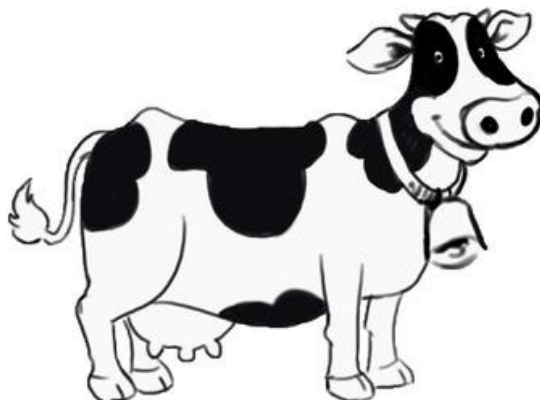
Life of a Dairy Farmer

Draw a Dairy Farmer feeding the cows at his Dairy farm.



Facts about Dairy Cows

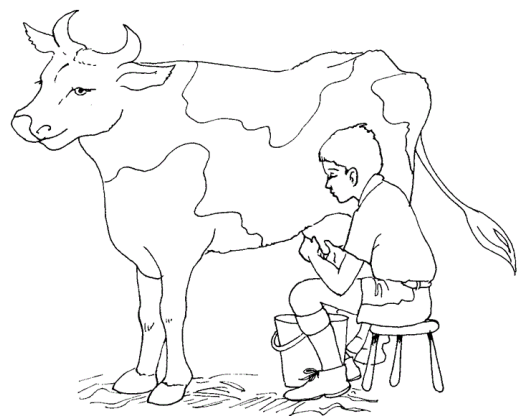
Where do cows live?	What do cows eat and drink?	How does a Dairy Farmer look after the cows?
Where are cows milked?	How often are cows milked?	How much milk is produced by: Each cow per day? The farm per day? The farm per week?
What types of technology are used on the Dairy farm?	Why do Dairy cows have ear tags?	Apart from the farmer, who else looks after the cows?



Marvels of Machinery

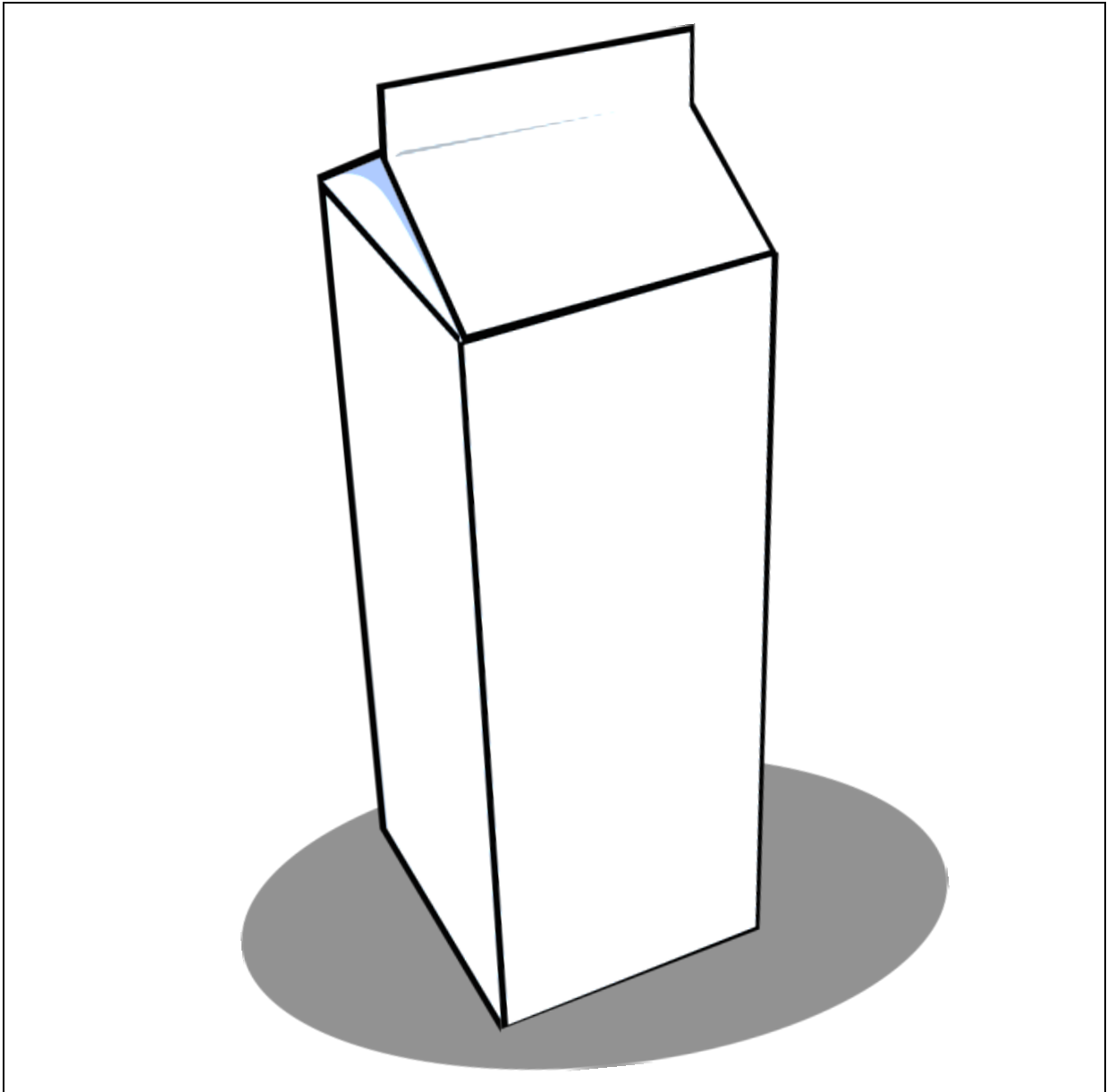
Milking machines have changed since they were first invented.
Draw or write about the different ways of milking a cow in the boxes below.

Before milking machines were invented.	
An early type of milking machine.	
An advanced type of milking machine.	
How you think cows might be milked in the future.	



Design a Milk Carton

Draw and design a new milk carton.



My milk carton is _____

I chose this design _____

Design a Yoghurt Container

Draw and design a new yoghurt container.

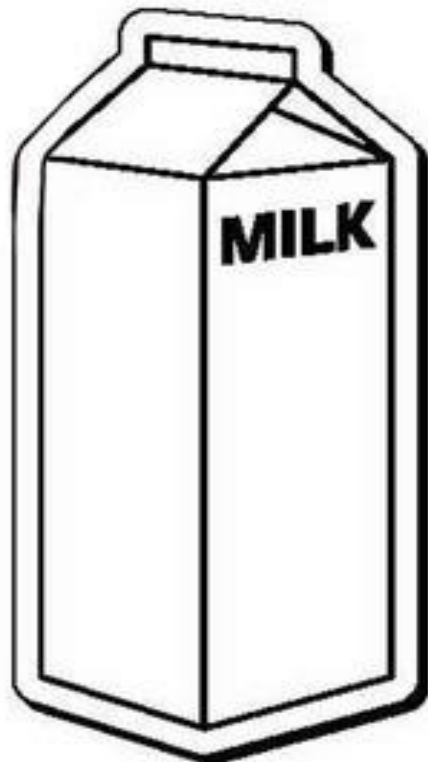
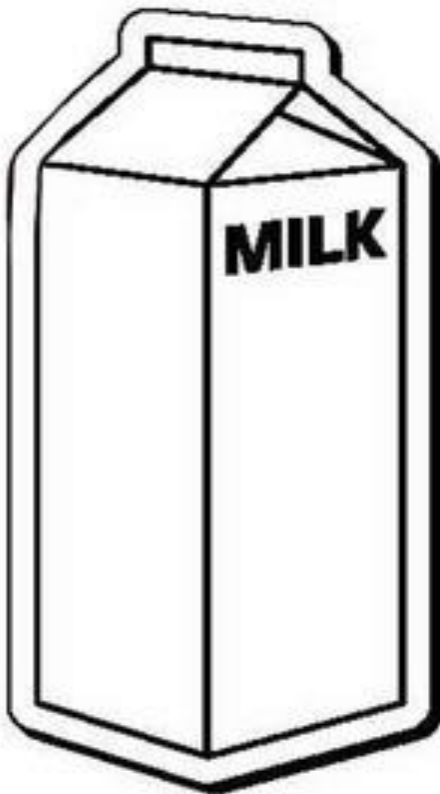
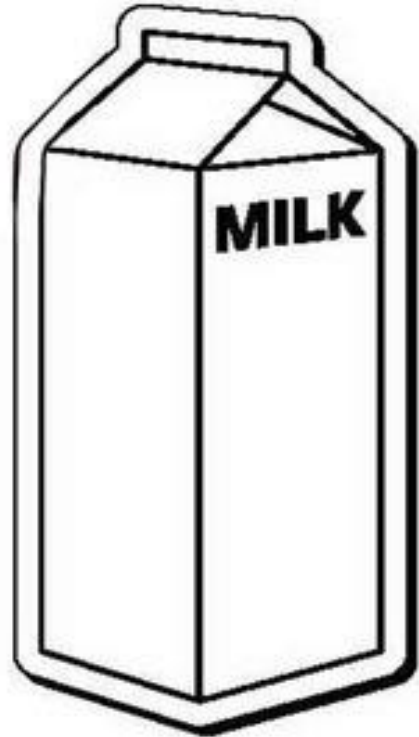
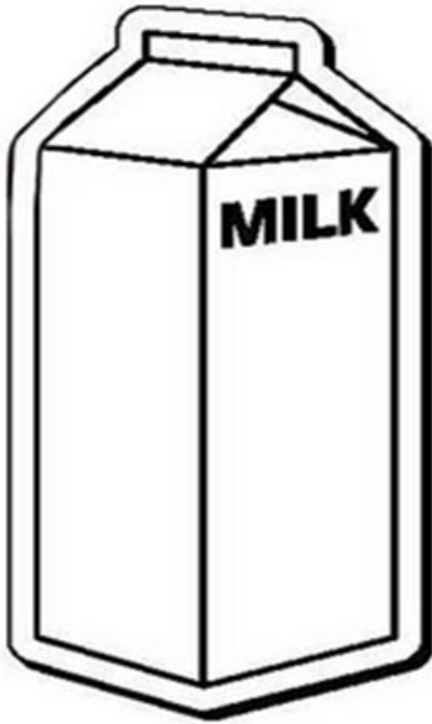


My yoghurt container is

I chose this design because

Importance of Milk

What words come into your mind when you think of milk? Fill in the milk cartons below with your thoughts.



Lunchbox at School

List the contents of your lunchbox and then find three other friends.

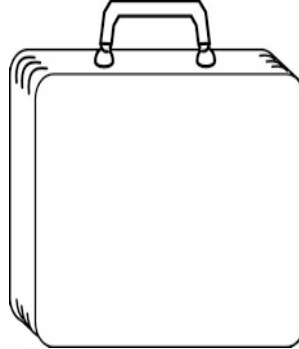
My Lunchbox



Lunchbox 2



Lunchbox 3



Lunchbox 4



List any items that are dairy foods, and the items that have dairy (milk, cheese, and yoghurt) as a major ingredient.

My Lunchbox



Lunchbox 2



Lunchbox 3

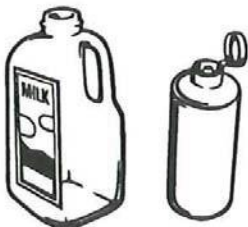
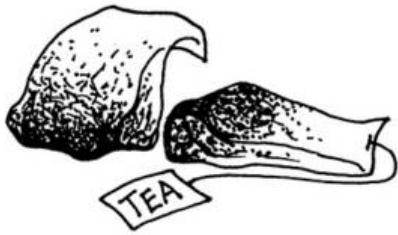


Lunchbox 4



Write sentences describing how the contents of the lunchboxes help promote the development of strong, healthy bones. If you think the contents of your lunchbox do not help promote the development of strong bones, suggest some changes for improvement.

Circle the items that can be placed in the recycling bin.



NAME: _____



DATE: _____

REDUCE

What I think it means.

What it actually means.

Ways I can **REDUCE**.

REUSE

What I think it means.

What it actually means.

Ways I can **REUSE**.

RECYCLE

What I think it means.

What it actually means.

Ways I can **RECYCLE**.

Dairy Word Sleuth

Z	B	R	O	W	N	E	S	D
F	R	E	S	H	J	M	D	A
B	O	N	E	S	E	A	A	T
C	A	L	F	F	N	C	I	E
D	F	G	H	A	E	H	R	K
C	G	H	J	R	R	I	Y	C
R	R	E	S	M	G	N	L	O
E	O	R	M	Z	Y	E	V	w
A	W	D	I	D	R	I	N	K
M	G	H	L	U	I	R	Q	A
R	P	D	K	G	R	A	S	S
C	T	A	N	K	S	F	D	P
G	M	I	N	E	R	A	L	S
B	A	C	T	E	R	I	A	H
R	A	W	M	I	L	K	G	O
V	C	H	E	E	S	E	B	T
C	A	L	C	I	U	M	X	Z

MACHINE

DRINK

HOT

DATE

BROWNES

DAIRY

YOGHURT

MILK

CHEESE

GROW

TANKS

BACTERIA

CALCIUM

MINERALS

HERD

CALF

CREAM

FRESH

GRASS

COW

FARM

BONES

RAW MILK

ENERGY

REDUCE

REUSE

RECYCLE

List two ways that you can reduce waste?

1. _____

2. _____

List three things in your home that you can reuse.

1. _____

2. _____

3. _____

Name a way that you can help make our community a better place. What can you recycle?

How would that help our community?



Year Four

Teacher Resources

Post School Tour

Brownes Dairy Scavenger Hunt

Did you see or find any of the following at Brownes Dairy? Place a tick next to the image.

	Brownes Dairy Logo
	Brownes Dairy Yoghurt
	Brownes Dairy Milk
	Brownes Dairy Cow
	Farmer
	Brownes Dairy Truck
	Pedestrian Crossing
	Brownes Dairy Worker
	Brownes Dairy Machinery
	Canteen Building
	'Moo to You' video

What do you know about dairy cows?

What do dairy cows eat and drink?

Where do dairy cows live?

What colour are dairy cows?

How much milk do dairy cows produce a day?

How often are dairy cows milked?

Why do we want happy, healthy dairy cows?

Draw a picture of a dairy cow:

What are two dairy products made from cows?

Acrostic Brownes Dairy Poem

B _____

R _____

O _____

W _____

N _____

E _____

S _____

D _____

A _____

I _____

R _____

Y _____

Milk Processing




Draw and illustrate the information below in each of the following boxes.

<p>After milking, where does the milk go? How is it kept?</p>	<p>How is the milk collected from the Dairy farm?</p>
<p>Where is the milk sent?</p>	<p>How is the milk treated?</p>

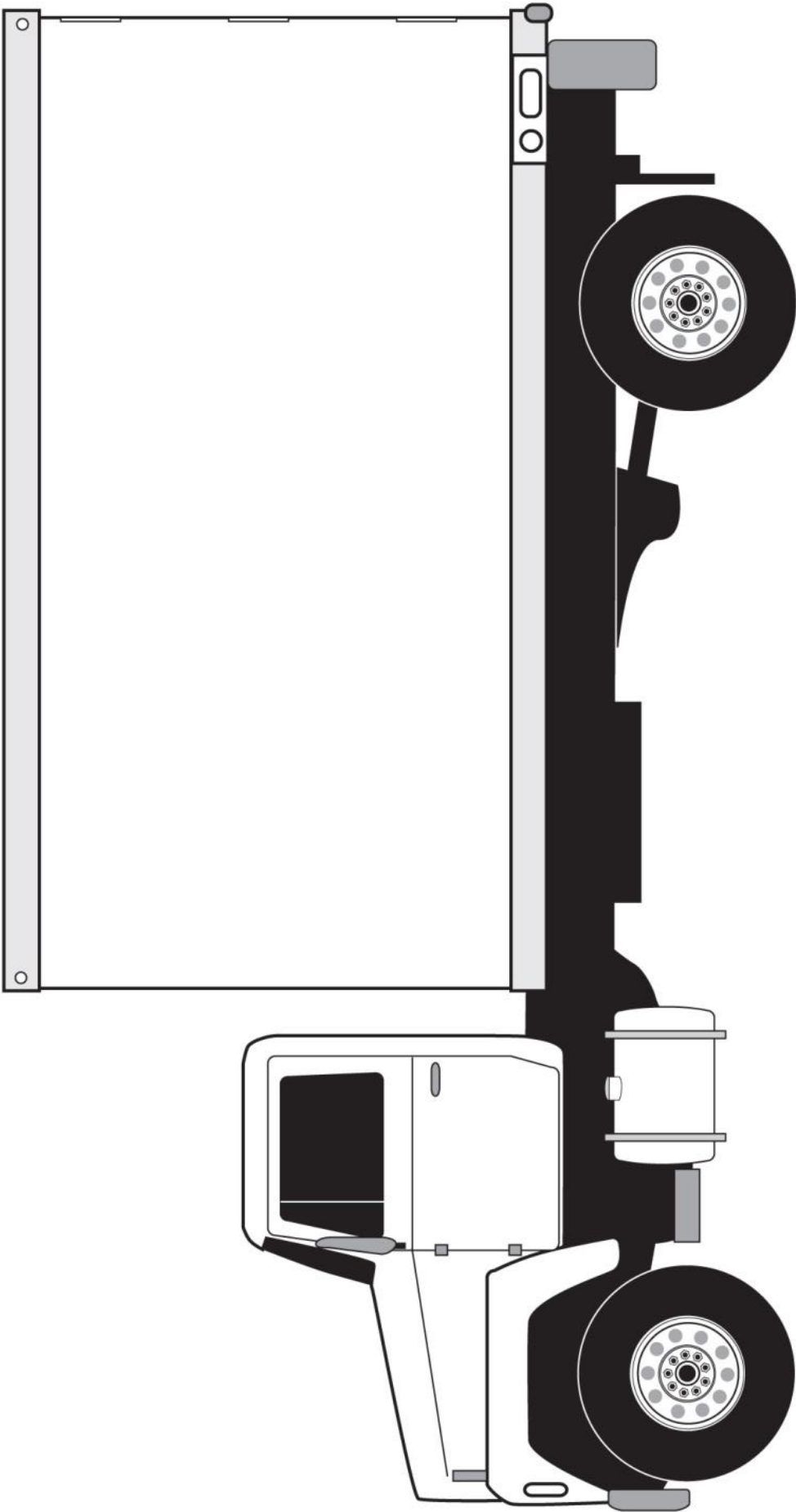
Brownes Dairy Product Sample

Today, I sampled two Brownes Dairy Products. Draw and label the two products below.

Brownes Dairy Product One	Brownes Dairy Product Two
<div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 10px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 10px;"></div>	<div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 10px;"></div> <div style="border-bottom: 1px solid black; height: 20px; margin-bottom: 10px;"></div>

Tick the following:			
I enjoyed eating or drinking the Brownes Dairy product.			
Colours on the Brownes Dairy container or carton are very interesting.			
The images on the Brownes Dairy container or carton are interesting.			

Colour in and create your own Brownes Dairy delivery truck below.



List 5 products that are made at Brownes Dairy? Draw a picture of each product.

1. _____

2. _____

3. _____

4. _____

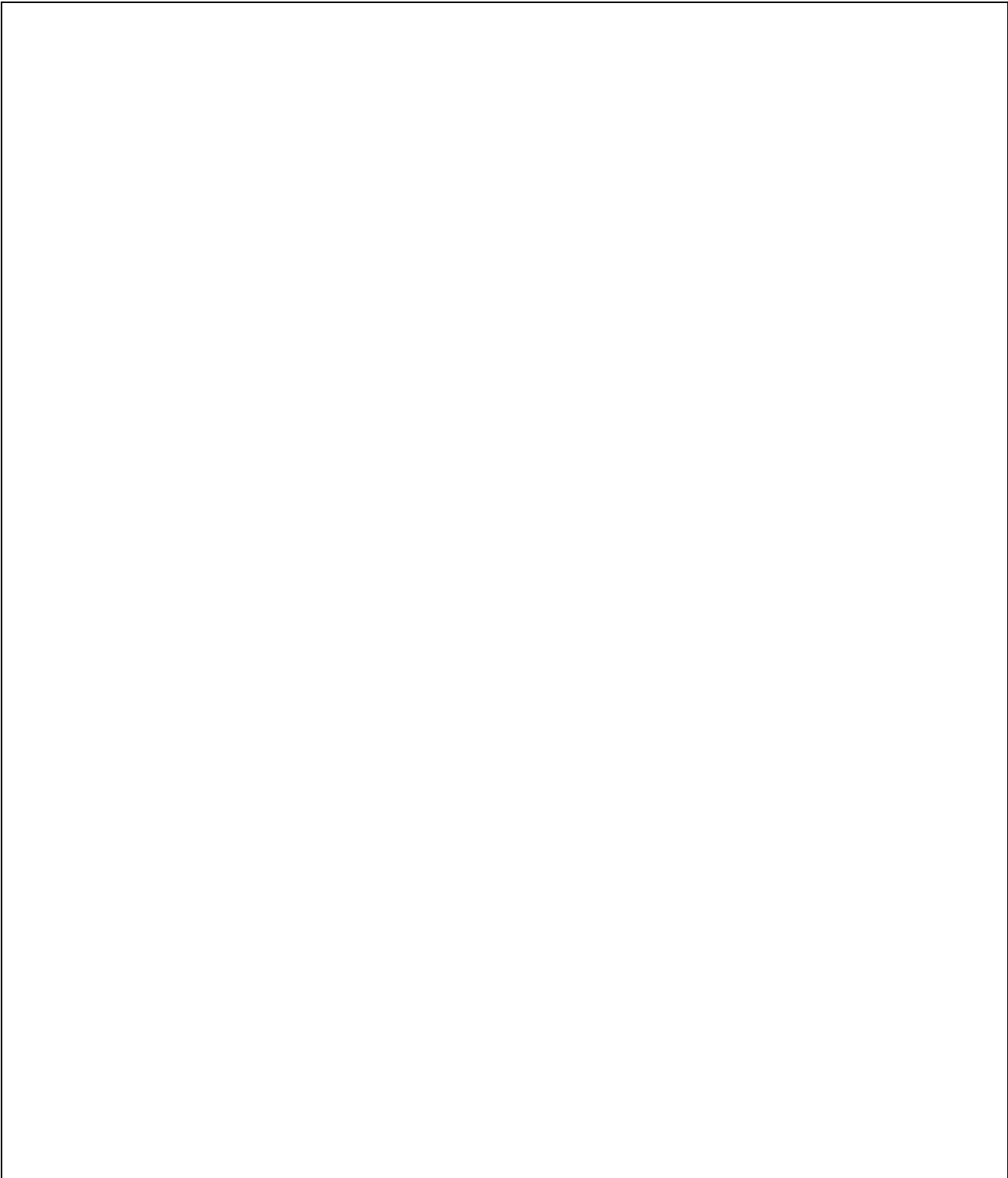
5. _____

Brownes Dairy Carton

There is a lot of useful information on a Brownes White Milk carton. Look carefully at a carton to complete the table below.

Name and address of the manufacturer
Name or type of milk
What is the use by date?
List of ingredients
Any other information?
Brand name
Draw the Brownes Dairy logo
Draw the carton

Draw a sketch of Brownes Dairy. Make sure you include: roads, footpaths, parking, gates, buildings and the names of the different areas in the factory.

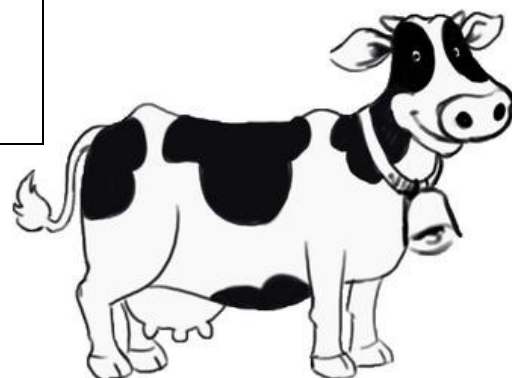


Name: _____

Date: _____

Write as many words that you can about milk and dairy in your Brownes Dairy dictionary.

Aa	Bb	Cc
Dd	Ee	Ff
Gg	Hh	Ii
Jj	Kk	Ll
Mm	Nn	Oo
Pp	Qq	Rr
Ss	Tt	Uu
Vv	Ww	Xx
Yy	Zz	



Design a Poster

Brownes Dairy sometimes needs new ideas to advertise their products.

Select a Brownes Dairy product and design a poster advertising this product. Your design will need to gain people's attention and show what you are advertising. You might include some of the following information:

- what you are advertising
- why people need to know about this product
- where they can buy the product
- think about who might be reading the poster
- the cost of the product
- the size of your poster

Ask your teacher to send some of your poster designs to Brownes Dairy.

BROWNES DAIRY SCHOOL TOUR REPORT

When you went on the Brownes Dairy School tour what did you see?

Write a report about the tour. Remember to write about **HOW, WHY,**

WHEN, WHERE, WHO and WHAT.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

WRITE A REPORT ABOUT A DAIRY COW

Title:		
What is it?		
<u>Description</u> : What does it look like?		Picture drawing of what it looks like
Where do you find them?	What can they do?	What do they eat?
<u>Conclusion</u> What do you think about it?		

BROWNES DAIRY

Write and draw three things you saw being made at Brownes Dairy.

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Write and draw three things the factory workers were wearing.

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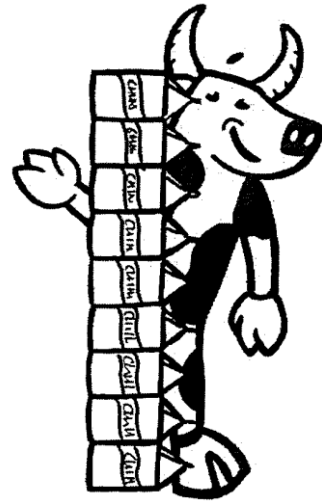
Write as many words as you can about **yoghurt** in the box below.

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Which job would you like to do at Brownes Dairy?

Why would you be good at this job?

Brownes Building



With your group of 3 or 4 people:

- Collect as many Brownes Milk or chill flavoured milk cartons as you can.
- Talk about what you want to make, using the cartons you have collected as a group.

In the box below brainstorm your ideas.

In the box below, draw what you want your building to look like.

Does your building look like your plan? _____

Can you make your building: taller_____, wider_____, longer_____?

Can you put something inside it? _____

Create your own Dairy Quiz

As you visit Brownes Dairy write down FIVE fun facts that can be used in your classroom for a Brownes Dairy Quiz.

1. Dairy

Question: _____

Answer: _____

2. Dairy

Question: _____

Answer: _____

3. Dairy

Question: _____

Answer: _____

4. Dairy

Question: _____

Answer: _____

5. Dairy

Question: _____

Answer: _____

Brownes Dairy Student Self Reflection

Did you enjoy your visit to Brownes Dairy?



Tick below what you liked best at Brownes Dairy:

☐

The 'Moo to You' video

☐

The Tour of the Milk and Yoghurt Dairy

☐

Farmer Damian and Daisy the Cow

☐

Innovation Kitchen and Yoghurt Tasting

☐

The Goodie Bag

☐

The Brownes Dairy Products

Draw and write 3 things you learnt at Brownes Dairy.

1.	2.	3.
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Draw a picture of your favourite part of the excursion and write about it.

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Out of 5 stars, I would give this excursion:

