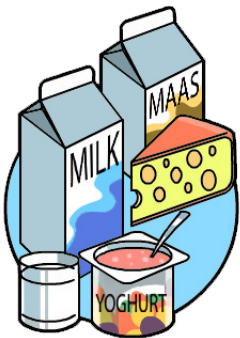


Recycling Art Challenge

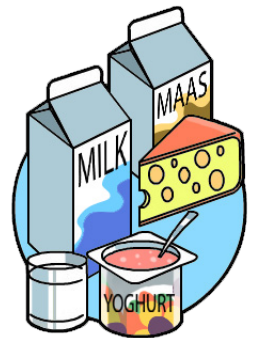
*Dairy for a healthy me
and a healthy planet!*



*Teacher's Guide
Criteria and Challenge
Guidelines Booklet*




Grade 4



General Guidelines:








Topic introduction

Use nutritional information about dairy products during teaching time to inform learners about the importance of dairy - visit www.dairykids.co.za.

 Dairy in our daily diet -

1. All dairy contains nine important nutrients we should consume daily.
2. Three servings of dairy will give you most of the bone-building mineral calcium you need daily.
3. Dairy products are all very nutritious.
4. Some products like yoghurt and cheese have less lactose than milk but are just as tasty! These fermented products are suited for people with lactose intolerance.





Art challenge introduction

-  Collect empty dairy product packaging such as empty milk sachets, plastic containers, cups, bottles or bags, bottle lids, etc. and upcycle them into art.
-  Learners must wash all the collected packaging with soap and water and allow it to air dry completely.
-  Learners are to create artwork from recycled dairy packaging material.
-  Learners must be innovative and creative. Learners participate individually.
-  Educators must select and group the participating learners according to their grades.
-  Educators must guide the selected groups to create artistic pieces from recycled dairy packaging materials.
-  Learners are expected to do the work alone and ask for guidance if needed.

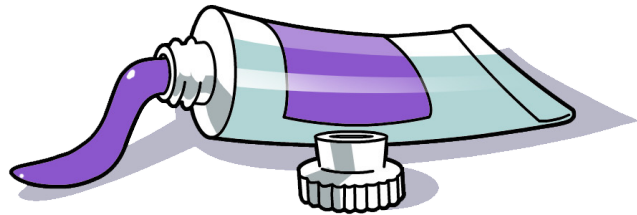




Grade 4 Art Challenge

Category: Garden Items – A Planter

-  Learners participate individually.
-  Learners must create a garden item – a planter.
-  Learners must use recycled dairy packaging such as dairy or milk sachets, plastic containers, cups, bottles or bags, bottle lids, etc.
-  Items for decoration can also be used, such as:

- Pom poms
- Paint
- Pipe cleaners
- Wool
- Jewel stickers
- Straws
- Beads
- Buttons
- Tissue paper
- Items from nature such as sticks, leaves or sand.
- Old sunglasses
- Old hair accessories.



-  Learners must use strong craft or wood glue to create the art piece.
-  Educators are to use the rubric included to mark submissions.

Lesson Plan 1

Activity: Create a classroom collection point for recyclable dairy product containers.

In this activity, teachers will create a central point for collecting recyclable dairy product containers in their classroom.

What you will need:

1. A large, old box or any large container suitable for collecting and storing recyclable dairy product containers.
2. Large sheets of A3 paper.
3. Coloured markers, pencils or crayons.

How to teach the lesson:

Obtain a large box or container. Divide the learners into groups and each group is to create 'poster labels'. Put the label information on the board so learners can copy it onto their poster labels.

Instructions:

1. The educator must place the learners into groups of 3 or 4. Ensure each group has a piece of A3 paper and coloured markers, pencils or crayons.
2. Learners must create a label for the large box or container. The label should read, 'Clean, dry containers go here!'
3. Learners can also create and paste posters around the school to promote and encourage the collection. The signs can read, 'We need your help to recycle!' The educator can write the information and the learners can decorate by drawing pictures of yoghurt containers, milk bottles, cheese wrappers etc.
4. Learners must be guided to stick up the posters in appropriate locations around the school.
5. Educators must ensure that the collection begins as soon as possible.



Lesson Plan 2

Activity: Simple ways to recycle.

In this activity, educators will inform learners of different ways to recycle.

What you will need:

1. The recycling information provided.
2. The recycling worksheet provided.
3. The YouTube video links provided.

How to teach the lesson:

The educator must begin with an introduction asking the learners if they know of ways to recycle. Educators can capture the ideas by writing them on the board. Once the discussion is complete, the educator must explain the different ways to recycle using the information and worksheet provided.

Instructions:

1. The educator can gather the learners to sit at their desks or on the floor carpet.
2. The educator guides a discussion with the learners by posing the following questions:
 - a. Who can remember what recycling is?
 - b. Which items can we recycle?
 - c. Does anyone know of different ways that we can recycle?
3. The educator is to provide examples to support the discussion.

Recycling is an important practice that helps reduce waste and conserve resources. Here are some simple ways to recycle:

☒ **Separate recyclables:**

Start by separating your waste into different bins or bags. Place items like paper, cardboard, plastic bottles, glass bottles and cans separately from non-recyclable trash.

☒ **Check local recycling guidelines:**

Different places may have specific rules for recycling. Check with your local recycling facility or municipality to know which materials are accepted for recycling in your area.

Rinse and clean:

- ☒ Before recycling, rinse containers like bottles, cans, and jars to remove any leftover food or liquid. Keeping things clean ensures recycling works well and things don't get mixed up.

✓ **Reduce and reuse:**

Recycling is just one part of waste management. Try to create less waste and find ways to reuse things.

For example, use reusable water bottles and bags instead of disposable ones.

✓ **Donate or give away:**

If you have items in good condition that you no longer use, consider donating them to local charities or giving them to friends or family. Using things again makes them last longer and creates less rubbish.

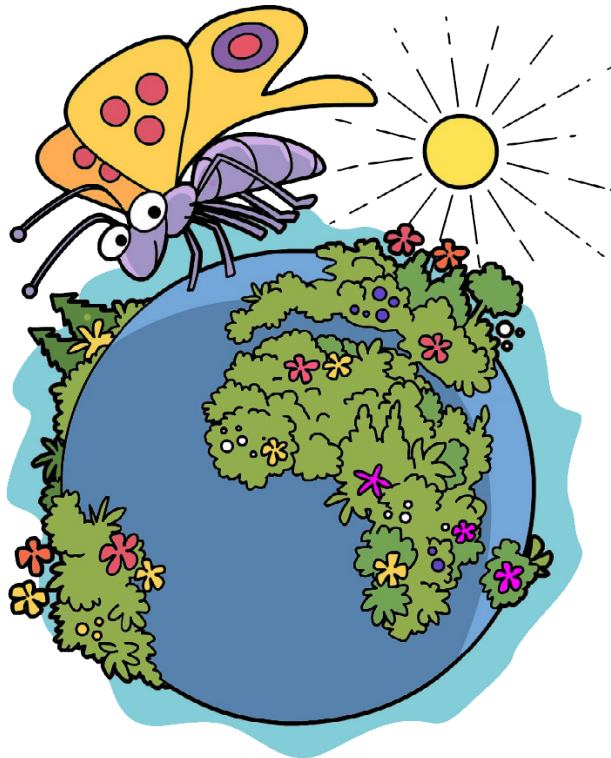
✓ **Use recycling facilities:**

Take advantage of recycling facilities in your area. Many communities have drop-off centres or roadside collection programs for recyclable materials.

✓ **Educate others:**

Share your knowledge about recycling with friends and family. Encourage them to recycle and explain why it's important for the environment.

Recycling is essential, but there are more ways to help the planet. When you recycle, you do your part to save resources, use less energy, and keep the Earth clean.



Cut out and paste the items next to the correct recycling bin.







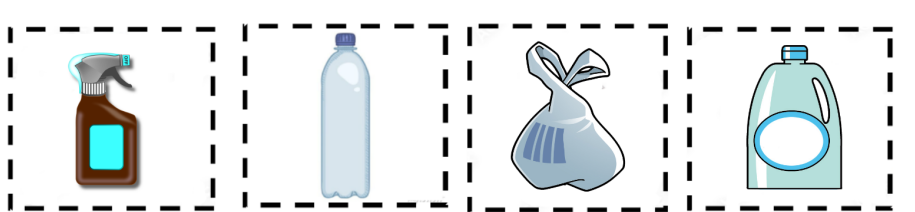
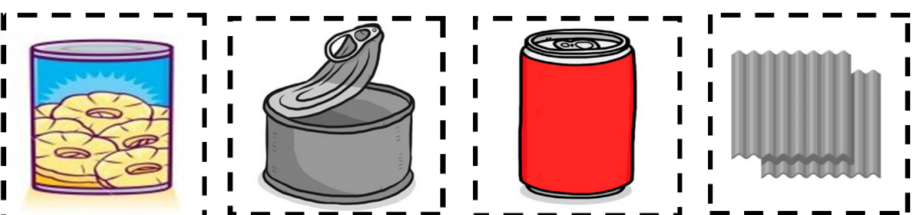
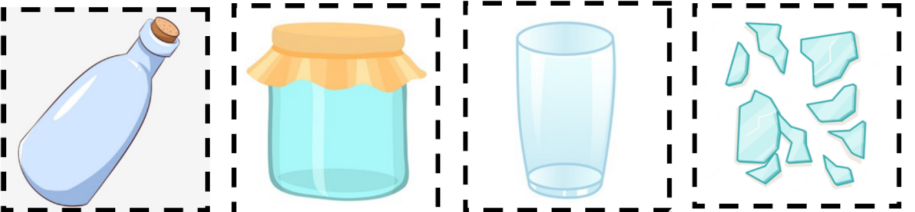
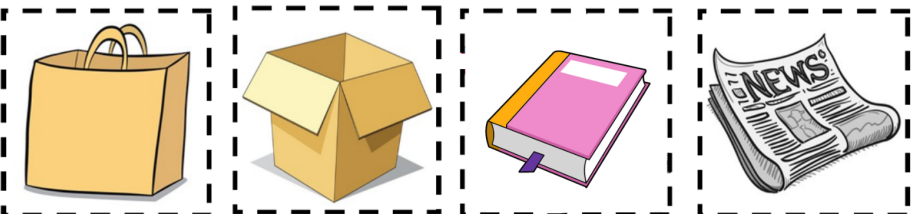






Memorandum

Cut out and paste the items next to the correct recycling bin.



Lesson Plan 3

Activity: Brainstorm ideas for a garden item (planter) made using dairy product containers.

What you will need:

1. Examples of a garden item constructed using dairy product containers.
 - ✓ Educator can make their own example at home or school to bring in for a practical, 'hands-on' example.
 - ✓ Pictures of garden items made using dairy containers – printed, shown in craft books or projected from the Internet.
2. A variety of clean and dry dairy product containers.
3. A selection of art decorations such as pom poms, stickers, pipe cleaners, old sunglasses, glasses, hair accessories, ribbons etc.
 - ✓ This is optional. Educators must encourage learners to see what they have at home before spending money unnecessarily.
 - ✓ The emphasis is on recycling, so purchasing supplies is counterproductive to the theme.
 - ✓ Educator must provide alternatives to store purchased art supplies – using a two-hole punch to punch coloured paper can create confetti. Shredding coloured paper in a paper shredding machine can create material for hair on the mask.
 - ✓ Educators to encourage learners to look to nature for materials too.

How to teach the lesson:

1. Educators must use examples of garden items to show the learners and inspire some ideas.
2. Examples can be an actual garden item that the educator has created.
 - a. This is a very good idea.
 - b. The learners will respond very well to touching and holding a real-life example.
 - c. Educators must use this opportunity to show how important it is to properly glue or staple the items and ensure their garden items are strong and of sturdy construction.
3. Educators can hold up dairy product containers and ask questions to spark the learners' imagination:
 - a. Hold up a bottle top, for example, and ask the learners what that can be used for.
 - b. Educators may write the answers on the board to create a mind map. Learners may also do the same.

- c. Educators can ask the learners to come up and choose a dairy product container and then inform the class what that item can be used for.
4. Educators must instruct learners to draw a garden item plan on paper.
5. Learners must label their plan and use that information to create a list of items they need to construct their masks.

Teacher resources – How to get paint to stick to plastic

	<p>Step 1</p> <p>Wash your milk jug with soap and water.</p>
	<p>Step 2</p> <p>Dry your milk jug thoroughly.</p>
	<p>Step 3 (recommended option)</p> <p>Use a piece of fine grit sandpaper and lightly sand the outside of your milk jug. (This will help the paint stick even more).</p>
	<p>Step 4</p> <p>Wipe the dust off your milk jug using a soft, dry cloth or rag. (You could even use a feather duster!)</p>
	<p>Step 5</p> <p>Mix equal parts of acrylic/poster paint with equal parts of craft/wood glue in a bowl.</p>
	<p>Step 6</p> <p>Paint your milk jug using your special mix of paint and glue.</p>

Examples of garden items made using dairy product containers.



<https://mungfali.com/>



<https://bit.ly/3Jvai7M>

Lesson Plan 4

Activity: Create a garden item using recycled dairy product containers.

In this activity, educators will introduce the art project whereby learners will create an item of transport using recycled dairy product containers. This activity aims to facilitate the learner's creation of an art piece that can be submitted to the art challenge.

What you will need:

1. Clean, empty dairy product containers.
2. Scissors.
3. Glue – craft or wood.
4. Stapler and staples (optional).
5. Decorative items.
6. Coloured paper.
7. Paint and paint brushes.
8. Old hair accessories, glasses, earrings, stickers, ribbon, string, buttons, sequins etc.

How to teach the lesson:

Educators must oversee the learners while they construct their garden items. Ensure the learners have their design plan and that they follow it.

TOP TIP – Each class should choose to do the same garden item and use the same cutting method to make things easier for all involved.

1. The educator must oversee the cutting of the items. Learners must be reminded about scissor safety and to ask for help if they struggle.
2. Once all the components are prepared, learners must glue their components together. Educators must put old newspapers (or the equivalent) to protect the desks from damage.
3. Educators can provide pegs or clips to help the parts adhere to each other appropriately. The educator may also assist with stapling parts together for extra reinforcement.
4. Decorating can commence once all the parts of the garden item are set and dry. Refer to the instruction sheet to make paint that will stick to plastic. Learners can also stick coloured paper or tissue to their garden items instead of paint.
5. Once everything is dry, learners can stick on decorative items such as stickers, pom poms, buttons, string, ribbon, wool, sequins, and buttons.
6. Educators must create and provide each learner with a label that includes their name, surname, and grade. This label must be secured to each learner's garden item.

Teacher's Resources

Recycled milk jug planters | milk can crafts | plastic bottle crafts | garden decor with plastic can

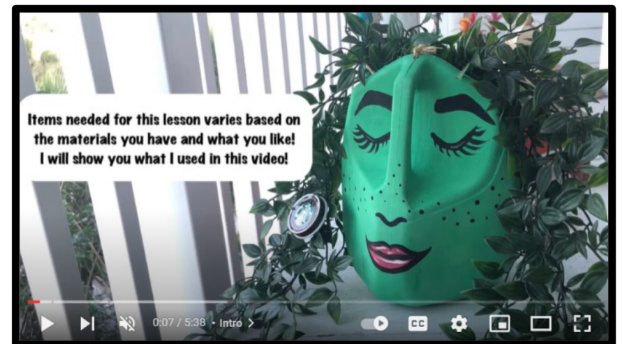
<https://bit.ly/3NICPy0>

Earth Day Art Lesson- Milk Jug Face Planter

<https://bit.ly/42Xqkyr>

Upcycled Milk Jug Craft

<https://bit.ly/3pmljl9>



Lesson Plan 5

Activity: Enjoy Dairy

Milk and milk products are often considered beneficial for growing children for several reasons. Educators will inform learners about how dairy products benefit our diets in this activity.

What you will need:

1. The included information.
2. The included dairy product worksheet and memo.
3. The YouTube links are provided.

Children may enjoy dairy because it has many health benefits and can help them grow strong and healthy. Here are a few reasons why:

1. Strong bones and teeth:

Dairy products, like milk, cheese, and yoghurt, have calcium, strengthening bones and teeth.

2. Good for your body:

Dairy has vitamins and minerals that help your body stay healthy. Vitamin D is in dairy and helps your body use calcium and keeps your bones healthy.

3. Helps you grow:

When you're a kid, your body grows a lot. Dairy has protein that helps your muscles and tissues grow and repair.

4. Gives you energy:

Dairy has a special sugar called lactose, which gives your body quick energy. It can help you feel energised and full of energy throughout the day.





5. Tastes excellent and comes in different forms:

Dairy comes in many yummy forms, like milkshakes, cheese sandwiches, and fruity yoghurt. You can enjoy dairy in different ways and try new flavours.

How to teach the lesson:

The educator must begin by asking the learners questions about dairy products. Educators can make notes on the board of the examples provided by the children. Once the discussion is complete, the educator must recap the benefits of consuming dairy as per the information provided in this document.

Instructions:

1. The educator can gather the learners to sit at their desks or on the floor carpet.
2. The educator guides a discussion with the learners by posing the following questions:
Who enjoys milkshakes?
Who enjoys cheese? What is your favourite type of cheese? What is your favourite way to eat cheese?
3. The educator must collect the learners' answers and write them on the board.
4. Fun extension activity: collate the information and create a poll bar graph that can be conducted with the learners.
5. The educator must then recall how dairy products benefit our bodies.
6. The educator can focus on yoghurt specifically –
 -  Who enjoys eating yoghurt?
 -  Which flavour is your favourite?
 -  Why is yoghurt good for us?
 -  How is yoghurt made?

Teacher resources

Where Does Yoghurt Come From?

<https://bit.ly/3r0fR85>

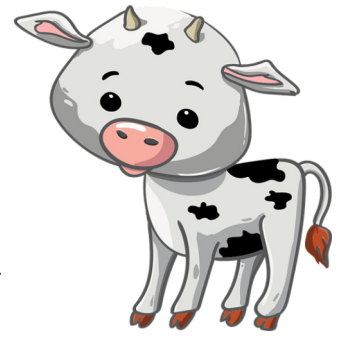
How is yoghurt made? Maddie's Do You Know?

<https://bit.ly/3pi9tbA>

Yoghurt Song.

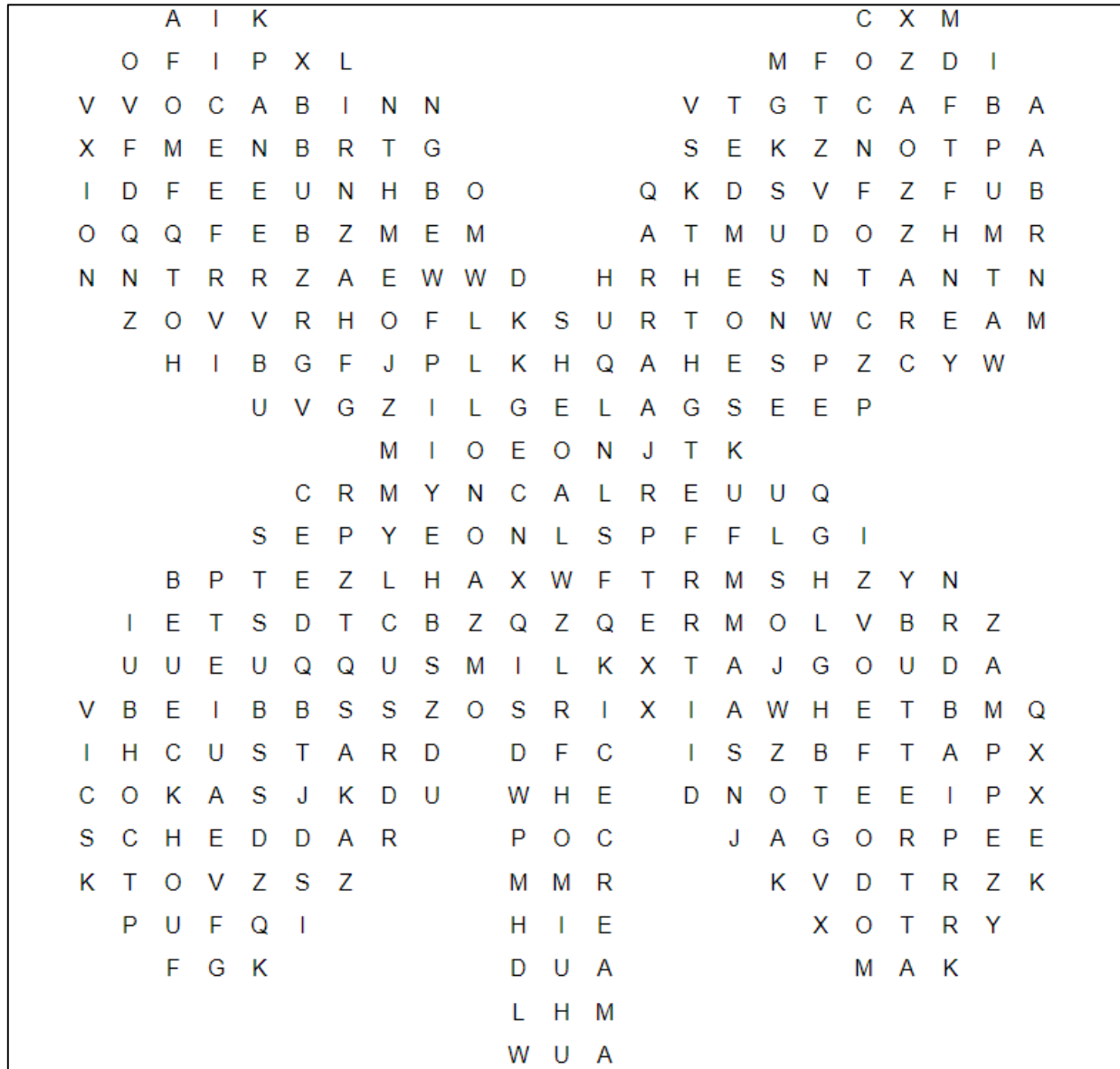
<https://bit.ly/3CJQz0o>





Dairy Product Wordsearch

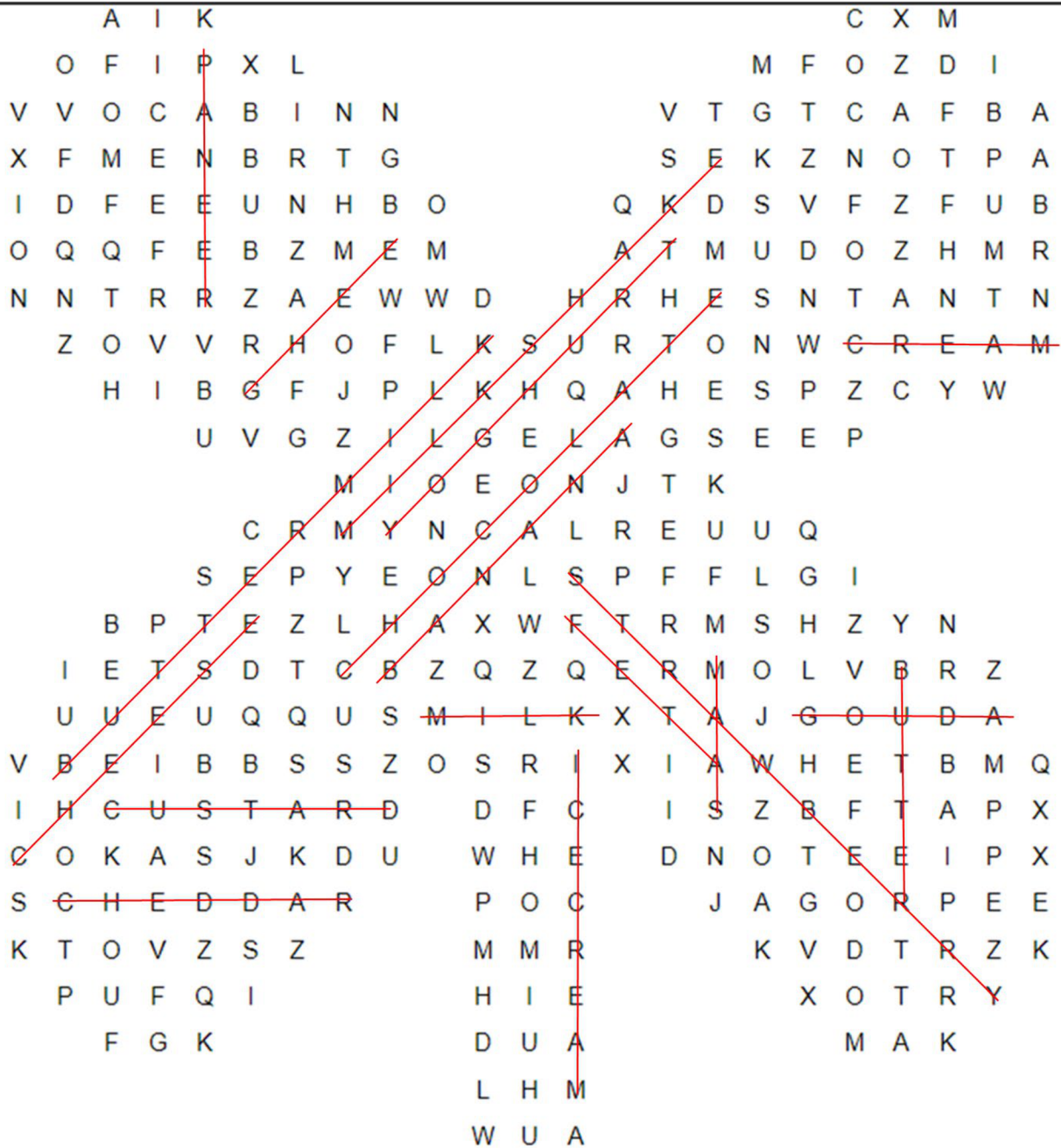
Find the dairy product words hiding in the word search puzzle. Mark the words off the list as you find them.



BUTTERMILK
CHEDDAR
CREAM
GHEE
MAAS
PANEER

BANANA
CHEESE
CUSTARD
GOUDA
MILK
STRAWBERRY

BUTTER
CHOCOLATE
FETA
ICECREAM
MILKSHAKE
YOGHURT



Educator Resources:

Recycling Challenge Rubric

Name of the learner: _____

Grade: 4

Name of the School: _____

District/Circuit: _____

Province: _____

Category: Garden Item - Planter

	Excellent	Good	Average	Poor	Criteria not Met
Criteria:	5	4	3	2	1
1. Theme/Subject Matter/Category <ul style="list-style-type: none"> The theme is clear and well-presented. The project shows detail. The learner has followed all instructions. 					
2. Creativity <ul style="list-style-type: none"> The art produced is original and shows creativity. All the graphics and objects used adhere to the design brief. A good variety of materials have been included. 					
3. Use of Dairy Product Packaging <ul style="list-style-type: none"> There is evidence that dairy product packaging has been used. Packaging is identifiable; not entirely hidden by paint. 					
4. Composition and Technical Level <ul style="list-style-type: none"> The construction of the planter is sturdy enough to hold a plant and soil. The planter can be hung using string or, if it has a sturdy bottom, sit on a surface without tipping over. 					
5. Overall Presentation <ul style="list-style-type: none"> The art shows a high level of creativity and originality. The art is very indicative of artistic ability and competence. The overall quality and standard of work are successful in all areas. 					
Total score:					