

## Learning Project WEEK 6 – Sweet Things

### Year 4

#### Weekly Maths Tasks

- **Maths Scavenger Hunt** – See how many of these things you can find in and around your home (see attached)
- **Mystery at the Chocolate Factory** – Have a go at the different activities to find out who the thief is! (see attached)
- **Problem Solving** – Four Triangles Puzzle (See below)

#### Weekly Reading Tasks

- **Reading comprehension** – Sound Waves (see attached)
- Do some **research about your favourite sweet treat**. Find out how it is made, its ingredients and where it is sold. Write down 5 facts.
- Remember to log in to **Accelerated Reader** after you complete a schoolbook to take your quiz!

#### Online Maths Tasks

**Mathletics** – Continue to have a go at the tasks set on here. (3x a week)

**TT Rockstars** – Make sure to have a go on Soundcheck at least once a day and help us in our weekly battle! (3x a week)

#### Daily Reading

Make sure to read for **20 mins a day**. Ask your child about what has happened, what their favourite part is, and what they think might happen next.

Remember you can now use **Epic Books** to access to even more books!

#### Weekly Spelling Tasks

- Practise your individual spelling lists on **Spelling Shed** (3x a week)
- **Hidden words** – Choose five of your Year 3/4 words and see how many hidden words you can find within it. (**knowledge** – know, ledge, now, edge)
- Choose 5 Year 3/4 spellings and write a **synonym** for the word. Can you put these synonyms into a sentence?

#### Weekly Writing Tasks

- **Write an advert/poster** to advertise your own chocolate bar after designing it for your DT activity. Remember to include lots of description to make people want to buy your chocolate bar.
- **Write a recipe** for making your own sweet treat. This could be cake, dessert, sweets or any other sweet treat you love! Share them with me so we can all have a go!
- Can you **write a story** based on **Charlie and the Chocolate Factory**? What would happen if you won a ticket to visit a chocolate factory? What do you think it would be like inside? What sort of adventure might happen to you?

## Learning Project - to be done throughout the week

The project this week aims to provide opportunities for your child to learn more about the sweet things in life!

- **Science**

**Skittles Experiment** <https://www.science-sparks.com/skittles-experiment/>

**Rock Candy** <https://www.happinessishomemade.net/rock-candy-tutorial/>



- **DT**

**Design your own chocolate bar.** Think about what shape it will be and what ingredients it will include. Also design the packaging for it – what will it be made of? How will you make it stand out on the shelves?



- **History**

**Research the life of Mr Cadbury** and make a **fact file** about him. Where was he from? What jobs had he done? How did he start making chocolate?

OR

**Research the history of chocolate** and **write some facts** about it. What is chocolate made from? Where does it come from? When was the first chocolate bar made?



- **Geography**

**Find out about where cocoa is grown.** What is the same about these places? Can you find out about Fairtrade? What does this mean? Can you find out some Fairtrade chocolate bars?



- **Time to Talk:**

Ask your family what they enjoy having as a sweet treat. Do you all have the same favourites? Do you agree with your family? Does someone like something that you hate? Talk to some older relatives about what their favourite treats were when they were a child – are they different to what you like? Do you think you would what they had?



### Additional learning resources parents may wish to engage with

**Classroom Secrets Learning Packs** - These packs are split into different year groups and include activities linked to reading, writing, maths and practical ideas you can do around the home.

<https://classroomsecrets.co.uk/home-online-learning/>

**Twinkl** - to access these resources click on the link and sign up using your own email address and creating your own password. Use the offer code UKTWINKLHELPS.

**Top Marks** – Some great Maths games for all ages, that you can play online.

<https://www.topmarks.co.uk/>

**Audible** – All children's books are free to listen to during school closure.

<https://stories.audible.com/start-listen>

**BBC Daily Lessons** – The BBC have created a series of daily lessons in all subjects that you can use to learn more. <https://www.bbc.co.uk/bitesize/dailylessons>

**The Great Barrier Reef** is the only living thing which is visible from space! Encourage your child to take a virtual tour of the reef using <https://www.airpano.com/360photo/Great-Barrier-Reef-Australia/>

**ICT Games – Literacy and Maths** – [www.ictgames.co.uk](http://www.ictgames.co.uk)

**Teach Handwriting** – This is our handwriting scheme we use at school that you may want to do to practise <https://www.teachhandwriting.co.uk/how-to-teach-handwriting.html>

# Four Triangles Puzzle



If you cut a square diagonally from corner to corner you get four right-angled isosceles triangles:



How many different shapes can you make by fitting them back together?

You may only join long sides to long sides and short sides to short sides. The whole length of the side must be joined.

This is allowed:



This is not allowed:



# COLOURFUL SKITTLES EXPERIMENT

## WHAT YOU NEED:

A plate or container – preferably white  
Skittles, other coated sweets work too  
Water

## INSTRUCTIONS

Place your skittles or sweets into a white container, try to alternate the colours.

Carefully pour water into the container, if the skittles move, just push them back into place quickly.

Watch what happens..



## WHY DO THE COLOURS SPREAD?

Skittles are coated in food colouring and sugar. When you pour water over the skittles the coloured coating dissolves spreading through the water.

The colour and sugar **dissolve** into the water and then **diffuse** through the water, making it the colour of the skittle.

# HOW TO MAKE ROCK CANDY

## Ingredients

- 2 cups water
- 6 cups granulated sugar
- Optional: 2 drops [food coloring](#)
- Optional: 1/2 to 1 teaspoon flavoring extract or oil



## Steps to Make It

Note: While there are multiple steps to this recipe, this homemade rock candy is broken down into workable categories to help you better plan for preparation.

## Prepare Your Materials

1. Clean the glass jars thoroughly with hot water.
2. For each jar, cut a length of thick cotton thread a few inches longer than the height of the jar and tape it to a pencil.
3. Place the pencil across the lip of the jar and wind it until the thread is hanging about 1 inch from the bottom of the jar. Attaching a paper clip to the bottom of the thread will weigh it down and help it hang straight.
4. As an alternative, you can use a wooden skewer instead of the string. Use clothespins balanced across the top of the jar to clip it into place.

## Make Your Rock Candy

1. Gather the ingredients.
2. Wet each thread or wooden skewer with water and roll it in granulated sugar. This base layer gives the sugar crystals something to grab when they start forming. Set these aside to dry while you prepare the sugar syrup.
3. Place the water in a medium-sized pan and bring it to a boil. Begin adding the sugar, 1 cup at a time, stirring after each addition. You will notice that it takes longer for the sugar to dissolve after each cup you add. Continue to stir and boil the syrup until all of the sugar has been added, and it is completely dissolved. Remove the pan from the heat.
4. If you are using colors or flavorings, add them at this point. When using an extract, add 1 teaspoon of the extract; for flavoring oils, only add 1/2 teaspoon. Make sure you don't stand right in front of the pan because the scent can be very strong as it rises in the steam. Add 2 to 3 drops of food coloring and stir it in to ensure an even, smooth color.
5. Allow the sugar syrup to cool for approximately 10 minutes, then pour it into the prepared jars.
6. Lower one sugared string or skewer into each jar until it hangs about 1 inch from the bottom.
7. Carefully place your jar in a cool place, away from harsh lights, where it can sit undisturbed. Cover the top loosely with plastic wrap or a paper towel.
8. You should start to see sugar crystals forming within 2 to 4 hours. If you see no change after 24 hours, try boiling the sugar syrup again and dissolve another cup of sugar into it. Then pour it back into the jar and insert the string or skewer again.
9. Allow the rock candy to grow until it is the size you want. Don't let it grow too large; otherwise, it might start growing onto the sides of your jar. Once it has reached the desired size, remove it and allow it to dry for a few minutes, then enjoy or wrap in plastic wrap to save for later.
10. Serve and enjoy.