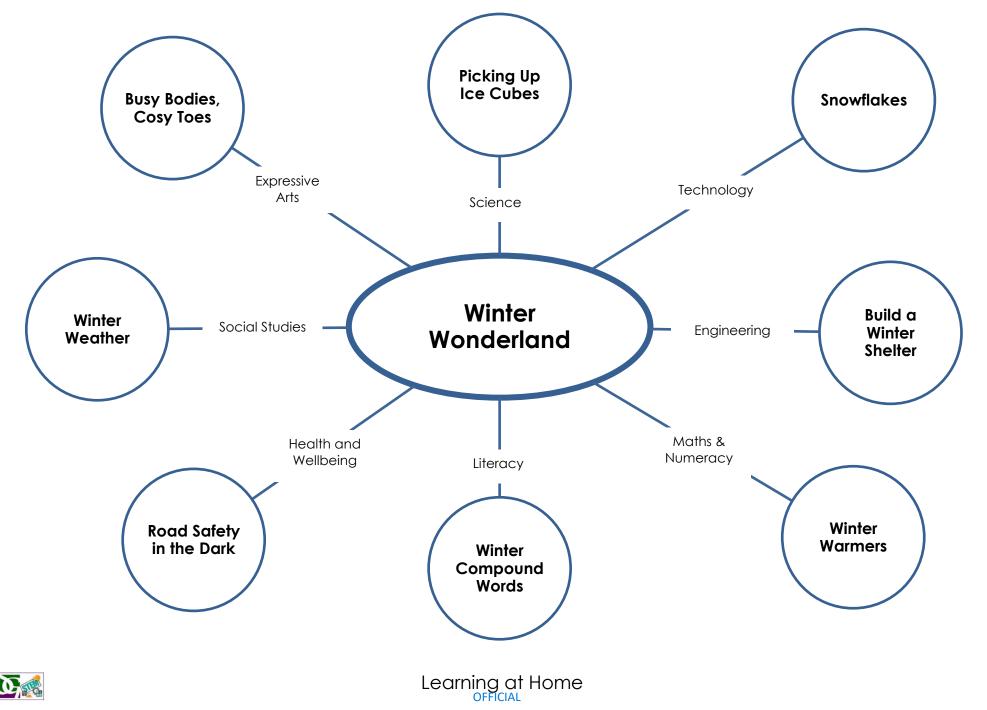
Early Level - Week dia Challenges - 13/12/21

# Learning from Home





Early Level - Week 33 Challenges - 13/12/21

# **Science Challenge**



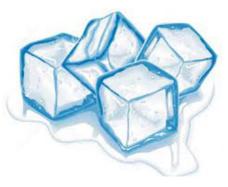
### Picking Up Ice Cubes

\*Check with an adult to make sure you have some ice cubes made in advance\*

## Can you pick up an ice cube using only a piece of thread?

### You will need:

ice cube thread salt glass of water filled up nearly to the top



### <u>Method:</u>

- 1. Drop the ice cube into the glass of water.
- 2. Have a go at picking up the ice cube using only the thread. You could try making a loop around it or come up with or some other way. Could you do it?
- 3. Now lay the thread on top of the ice cube with the ends dangling over the side of the glass.
- 4. Sprinkle salt on top of the ice cube and thread. Leave it for a few minutes.
- 5. Take both ends of the thread and pick them up.
- 6. Lift up the ends of the thread and hold them up high. What happens to the ice cube?



#### The science:

Saltwater freezes at a lower temperature than normal tap water. The salt melts some of the ice so that the thread goes slightly inside the ice cube. The water then freezes again over the thread, trapping it inside the cube. So, when you lift up the thread, the cube comes with it.



# **Technology Challenge**

## Snowflakes

#### Did you know that all snowflakes are different?

While snowflakes appear to be white as they fall from the sky or as they gather on the ground, they are actually totally clear.

The ice though, is not **transparent** like a sheet of glass in a window but rather it is **translucent**, meaning that while light gets through, you can't see any objects or shapes through it.

\*Adult supervision is required.\*

#### To watch a short video about snowflakes click here: <u>https://www.youtube.com/watch?v=rbW6MsXfPYU</u>

#### To make your own snowflake <u>you will need:</u>

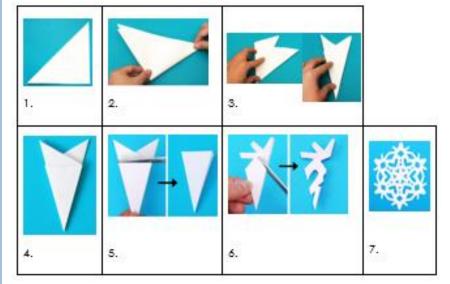
Paper - cut into a square (The smaller the paper the harder it will be) Scissors

# 1. Fold the paper in half along a diagonal line to make a triangle.

- 2. Fold this triangle in half to make a smaller triangle.
- 3. Next, fold the triangle into three equal sections, folding the two outer sections to the front.
- 4. Flip the shape over so that you can see the flat horizontal edge is facing the front.
- 5. Use your scissors to cut along the horizontal edge.
- 6. Very carefully hold on to your paper and start to cut random shapes out of the edges.
- 7. Carefully unfold the paper to reveal your paper snowflake.

#### Instructions and pictures from <u>www.firstpalette.com</u>

#### Instructions:









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Early Level - Week 13 Challenges - 13/12/21

# **Engineering Challenge**



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## **Build a Winter Shelter**

# Adult supervision is needed for this activity!

Build a shelter to keep the bear from **'The Bear's Winter House'** warm. Click here to watch his story: <u>https://www.youtube.com/watch?v=S6CLojdV2cc</u>

#### You will need:

- Brown playdough (See recipe below)
- Shelter building materials (lolly sticks, pipe cleaners, paper strips, twigs, leaves, moss, string, etc.)

**Optional**: small toys (bear) to shelter inside, toy hammer to hammer in posts

#### Brown Playdough Recipe:

#### (An adult must supervise - danger of scalding)

- •2 cups plain flour (add more if dough is too sticky)
- •1 cup of salt
- $\bullet ^{1\!\!/_{\!\!2}}_{\!\!\!2}$  cup of cocoa powder
- •2 cups boiling water
- •2 tbsps. vegetable oil
- •2 tbsps. cream of tartar

**Instructions:** Mix dry ingredients together, stir in oil then add boiling water. When cool enough, knead until smooth.

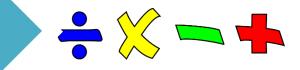


When the playdough is ready you can start to build your shelter.



Idea from Hamilton Trust

# Maths & Numeracy Challenge

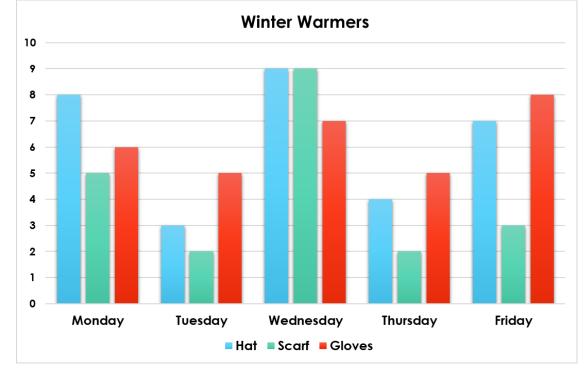


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#### Winter Warmers

This bar chart shows the number of boys and girls who wore a hat, gloves and scarf to school last week.

#### See if you can use the information it contains to answer the questions.



#### **Questions**

- 1. How many children wore a scarf on Tuesday?
- 2. How many children wore a hat on Friday?
- 3. On which day did 5 children wear a scarf?
- 4. One more child wore **gloves** compared to the number who wore a hat on which day?
- 5. On which day did the same number of children wear hats and scarfs?



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# **Literacy Challenge**



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### Winter Compound Words

A compound word is two smaller words joined together to make a new word. arm + chair = armchair lip + stick = lipstick tooth + brush = toothbrush

See if you can join these words up below to make some new compound words. Write them down then see if you can find them in the wordsearch. Good luck.

frost	t	sn	ow	tii	me		m	an	ļ	ging	er	0	ver	fi	re	fru	it
sno	w	pi	ine	b	ite		fa			win	ter	sn	IOW	C	oat	cak	e
con	ie s	sto	rm	fl	ake	ŀ	S	now		pla	ce	b	all	sr	ıow	bre	ad
		0	с	z	0	×	z	9	Ь	n	i	С	t	r	a	9	
	5	5	n	0	w	f	L	a	k	e	a	j	Ь	S	r	i	
	the C	7	m	w	Ь	Y	n	j	f	С	9	m	p	n	h	w	
• 🦲 )	V	N	j	S	h	×	С	m	0	V	e	r	С	0	a	+	
	9	3	i	n	9	e	r	Ь	r	e	a	d	Y	w	Ь	z	
	0	0	P	0	Ь	i	w	С	Y	Ь	С	f	f	S	f	m	
	F	C	i	w	z	0	i -	a	e	k	P	d	j	+	S	f	
	E	C	n	Ь	9	e	n	w	d	u	z	9	×	0	i -	r	
	1	F	e	a	s	Ь	t	9	9	u	a	P	×	r	S	0	
	0	7	С	1	w	9	e	k	t	z	h	a	r	m	n	S	<u>E</u>
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	2	z	e	f	r	u	i -	+	С	a	k	e	e	0	m	i 👘	
	i		k	S	0	d	m	r	z	+	n	9	Ь	v	a	+	
	>	×	۵	f	i	r	e	þ	I.	۵	С	e	i	9	n	e	
Г	fire	epl	ace		1	sne	owb	all		s	now	mai	1		ginge	erbread	1
F		-	storn		-		pla		+			coa		<u> </u>		stbite	

fireplace	snowball	snowman	gingerbread
snowstorm	fireplace	overcoat	frostbite
snowflake	pinecone	wintertime	fruitcake



Images

Early Level - Week 33 Challenges - 13/12/21

# **Health & Wellbeing Challenge**

Colour me bright

Name

Colour Az's clothes

brightly, so that he is easier for drivers to see

#### Road Safety in the Dark

It is much harder to see when it is dark than when it is light. In Winter it gets dark much earlier and it stays dark longer in the mornings.

Have you ever seen anybody out wearing very bright or special **reflective** clothing which shines when light hits it? This makes it easier to be seen in the dark.

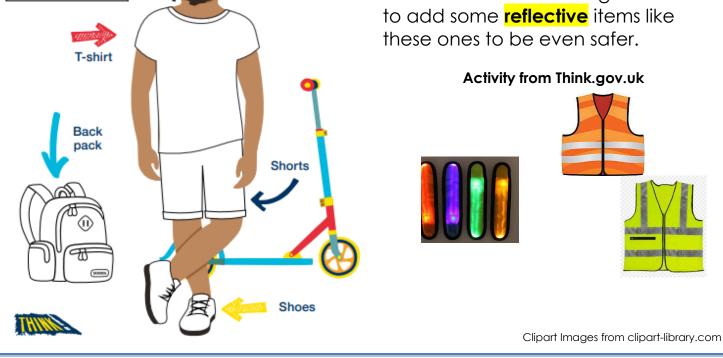
Watch this very short clip about how the colours you wear can make you safer when out in the dark. <u>https://www.bbc.co.uk/programmes/p01199ty</u>

Try this game where you can see people wearing different outfits. Would they be easy to see if it was dark outside?

https://www.think.gov.uk/resource/be-bright-be-seen-game/

If drivers can't see you then this could be very dangerous and it could cause an accident.

Have a go at this activity – colour the boy's outfit using bright colours that would make it easier for him to be seen in the dark. You might also want to add some **reflective** items like these ones to be even safer.



Cycle

helmet



Early Level - Week 13-12/21

# **Social Studies Challenge**



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### Winter Weather

Spring	daylight	coldest	Winter	seasons	clothes			
Click here to wat	ch a video about t	he British Winter	: <u>https://www.</u> y	<u>youtube.com/w</u>	vatch?v=X0Bv6hchrg0			
1. There are fo	our	in c	ı year.					
2. The seasons	are Spring, S	ummer, Au	tumn and		•			
3. Winter is the	season befo	re		<u> </u> .				
4. Winter is the	)		time of the	e year.				
5. We need to	wear warm <u>-</u>		in	Winter.				
6. We get less			in Winter.	Image	es from clipart-library.cc			
	Can you m	atch these	clothes to	the season	?			
	Summer		Winter					
			å <b>•</b>					
			<u></u>					
	gloves	sandals t		t shorts				
	gloves	sandals t	soots ha	t shorts				



# **Expressive Arts Challenge**



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Busy Bodies, Cosy Toes



Activity and photo from: www.bbc.co.uk/schoolradio ©

This is a fun Dance and Drama session which allows you to take a **'through the window'** look at the winter wonderland outside.

### You will need:

A computer or smart phone to access the audio file. Space to dance and act out the instructions A partner – this could be a brother or sister or an adult at home.

### Click here to listen:

https://www.bbc.co.uk/teach/school-radio/ks1-dance-lets-movewinter-wonderland/zvkt6v4

\*There is also an option to download the audio file – which could give a grown up the option of playing this outdoors if they feel more space is required for this activity.

