Welcome to Spring 1!

This term we will be focusing home learning on 'Properties and materials'. This will help consolidate the learning taking place in school.

All pupils must complete the tasks by Monday 5th February 2024.

All pupils are expected to do the following weekly set task alongside:

- ✓ Daily reading—The expectation is that your child will read daily for a minimum of 20 minutes at home using the online 'Boost' programme.
- ✓ Weekly maths My Maths home learning tasks, maths games and activities on OneNote
- ✓ Weekly Spellings see below

Education must develop every child's personality, talents and abilities to the full (UNCRC Articles 28 & 29). We can't wait to see what you do and look forward to seeing your wonderful home learning.

Yours Sincerely,

Year 5 Team

Focus – **Properties** and materials

Some facts about properties and materials:

- Materials have diverse properties like hardness, flexibility, and conductivity.
- Different materials serve specific purposes based on their unique properties.
- States of matter include solids, liquids, and gases, influenced by temperature.
- Everyday materials include wood, metal, plastic, glass, and fabric.
- Materials can undergo reversible changes (e.g., melting) and irreversible changes (e.g., burning).
- Mixtures combine materials without chemical reactions, while solutions involve dissolving.
- Recycling conserves resources and reduces environmental impact.
- Forces can impact materials, causing stretching, bending, or compression.



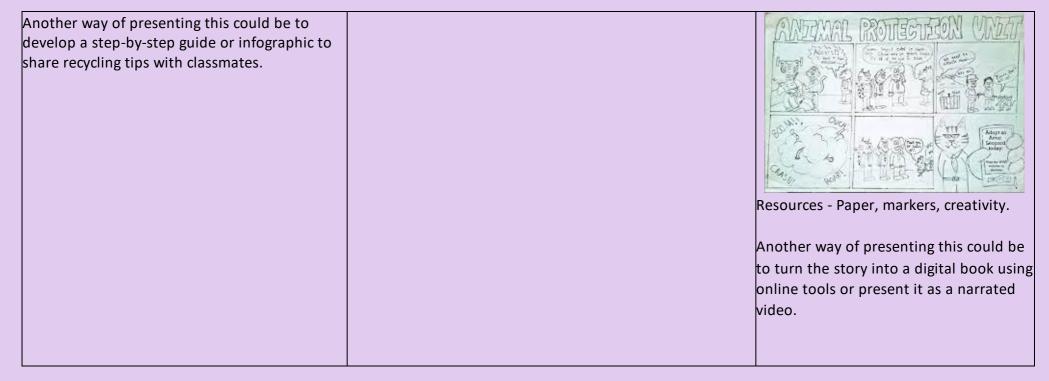
More information

- Transparent materials, like glass and clear plastics, allow light to pass through.
- Elastic materials, such as rubber bands, can stretch and regain their original shape.
- Some materials, like sponges, can absorb liquids, showcasing the property of absorption.

	Key Vocabulary and definitions linked to Space					
Word	Definition	Word	Definition			
density	The measure of how much mass is contained in a given volume of a substance. Denser materials have more mass packed into a specific space.	brittleness	The tendency of a material to fracture or break without significant deformation. Brittle materials are prone to shattering.			
conductivity	The ability of a material to allow the flow of heat or electricity. Good conductors allow efficient transfer, while insulators resist the flow.	viscosity	A measure of a fluid's resistance to flow. Materials with high viscosity, like honey, flow more slowly than those with low viscosity, like water.			
ABCD transparency	The property of materials that allows light to pass through, making objects on the other side visible. Materials like glass and clear plastics are transparent.	nalleability	The ability of a material to withstand deformation under pressure and be shaped into thin sheets. Malleable materials can be easily worked or hammered.			
ductility	The ability of a material to undergo significant deformation (bend or stretch) before breaking. Ductile materials can be drawn out into thin wires.	tensile strength	The maximum stress a material can withstand without breaking when stretched or pulled. It measures the material's resistance to a force pulling it apart.			

Week 1	Week 2	Week 3
Article 2: Non-discrimination	Article 5: Family Rights	Article 8: Identity
All children have all these rights, no matter who	Governments should let families and communities guide	Children have the right to their own
hey are, where they live, what language they	their children so that, as they grow up, they learn to use	identity – an official record of who they
peak, what their religion is, what they think,	their rights in the best way. The more children grow, the less	are which includes their name,
what they look like, if they are a boy or girl, if		nationality and family relations. No one
hey have a disability, if they are rich or poor,		should take this away from them, but if
•		this happens, governments must help
or what their parents or families believe or do.	that you enjoy together. How do these activities contribute	children to quickly get their identity bacl
No child should be treated unfairly for any	to a happy and supportive family environment? Share your	
eason.		Reflection Task: Create a personal
		identity map that represents who you
Reflection Task: Think about a time when you		are, including your interests, culture, an
elt treated unfairly or discriminated against.		dreams. Reflect on the importance of
How would the world be different if everyone		respecting and celebrating the unique
was treated equally? Write or draw about it.	report.	identities of others.
		Project: Use different materials to create
Project: Identify and collect materials around	indicentals and methods	artwork. Discuss how material choices
our homes. Classify them based on properties		impact the art. Display the creations in a
e.g., hard, soft, transparent). Create a visual	Experiment 2: Measuring Flexibility	virtual art gallery or physically at home.
display or chart.	Data Analysis	A Manual Manua Manual Manual
North and the second difference of the second	Conclusion	
Resources - Everyday household items, chart	Reflection	
paper, markers.		
Another way of presenting this could be to take		
photos of the materials and create a digital	1. martine and 1.	
collage or presentation.		Resources - Art supplies, recycled
		materials, camera.
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		Another way of presenting this could be
		to create a digital art gallery using

	Resources - Variety of materials, containers of water, rulers, notebooks. Another way of presenting this could be to create a poster or a short video explaining the experiment and findings.	physical art with a guided video tour.
Week 4	Week 5	Week 6
If a child lives in a different country than their parents, governments must let the child and parents travel so that they can stay in contact and be together. Reflection Task: Imagine being separated from your family for a long time. How would you feel? Write a letter or draw a picture expressing	Children have the right to share freely with others what they learn, think and feel, by talking, drawing, writing or in any other way unless it harms other people. Reflection Task: Think about a time when you expressed yourself creatively (through art, writing, or speaking). How did it make you feel? Create a piece of art or write a short	information from the Internet, radio, television, newspapers, books and other sources. Adults should make sure the information they are getting is not harmful. Governments should encourage the media to share information from lots
Project: Investigate recyclable materials at home. Create a plan to reduce waste and recycle. Document the process and changes made.	make it sturdy. Resources - Craft materials, small weights, books for testing. Another way of presenting this could be to create a short video showcasing the bridge-building process and testing	Reflection Task: Explore a topic you are curious about. Research and write a short paragraph on how having access to information helps you learn and understand the world better. Reflect on why it's essential for everyone to have this right. Project: Write a short story or create a comic strip where materials come to life with unique personalities based on their
	Another way of presenting this could be to create a short video showcasing the bridge-building process and testing results.	со



Belmont School Home Learning Year 5 Spring 1 2024

<u>Spellings</u>				
<u>Every week you will have a spelling test. Please learn the spellings</u>				

	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Group 1	owl	dream	moon	rain	soil	see
	snow	head	book	stay	boy	meet
	cried	her	beard	same	spoon	each
	field	under	bear	flag	step	happy
	glass	Plum	blink	one	ask	twist
	love	come	some	once	friend	school
Group 2	redo	superstar	antifreeze	autograph	happily	gently
	replace	supercar	antisocial	automobile	angrily	simply
	dislike	supermarket	antiseptic	automatic	easily	humbly
	disagree	superman	anticlockwise	subtitle	sensibly	sensibly
	misbehave	superwoman	subheading	supermarket	fussily	horribly
	reappear	supernatural	submarine	superman	merrily	possibly
	refresh	strength	subtitle	antifreeze	greedily	terribly
	unclean	sentence	subdivide	antisocial	actually	responsibly
	untruthful	straight	continue	subheading	accidently	probably
	misunderstand	strange	surprise	autobiography	occasionally	woman
Group 3	borough	admiration	change	payable	sensible	aisle
	advice	admirable	changeable	likeable	visible	isle
	nutritious	adorable	notice	enjoyable	visibly	farther
	confidential	application	noticeable	reliable	possible	father
	suspicious	applicable	charge	actionable	possibly	guessed
	thorough	consideration	chargeable	dependable	horrible	guest
	nuisance	considerable	correspond	comfortable	horribly	allowed
	parliament	vegetable	accompany	remarkable	terrible	aloud
	privilege	committee	apparent	understandable	terribly	heard
	secretary	community		immediately	incredibly	herd