

# Wester Cleddens Science Grid Mild



### \*\*\*PLEASE NOTE, SOME OF THE ACTIVITIES BELOW REQUIRE ADULT SUPPORT AND SUPERVISION. \*\*\*

Message on a Banana	Bouncy Egg	Re-growing a Carrot	Paper Towel Rainbow	Scared Pepper
Do you think you can write a	SCN 0-07a	SCN 0-03a	SCN 0-07a	SCN 0-07a
secret message on a banana with	Do you think you can make a bouncy ball with	Place the top cut off end of a carrot in a shallow	Show your support for the NHS by making this	Do you think you can make some pepper run
just a cocktail stick?	an egg?	bowl of water. Change the water every three days.	paper towel rainbow. Do you think the water can	away just with your finger?
I.Use a cocktail stick to mark a		Keep in a sunny spot in your home.	dimb up the tissue?	
pattern, draw a picture, or write	To make your own bouncy ball you will need			Why do you think this happened?
a message on the banana skin.	the following items:	https://www.youtube.com/watch?v=uoE7nhkYf4E	What you need:	5 5 11
Press firmly enough to dent the	I. White Vinegar		I. Water 🔥 🗛 🦘 👌 🍂 🦵	https://youtu.be/b-8-hCl.gtKQ
skin, but not too hard to break	2. Raw Egg	(You will not grow a whole carrot.)	2. Cups	
through the skin.	3. Bowl or Glass		3. Kitchen Roll	
2.Wait for your message, picture	If you would like to make a rainbow bouncy	Do -5	4. Food Colouring	
or pattern to appear.	ball then add some food colouring to your		Ĵ	× 🖱 🌮
SCN 0-07a  🤰	vinegar.	Star -	https://www.youtube.com/watch?v=9FUfVlon6t	
	https://www.youtube.com/watch?v=_vs5W8xvkxQ	Ľ Do	<u>8</u>	
Smelly Food	My Heart	Fireworks in a Glass	Re-growing a Spring Union	Gummy Bear Experiment
SCN 0-12b/1-12b	SCN 2-12a	SCN 0-0/a	SCN 0-03a	SCN 0-05a / SCN I-05a 🛛 🛤
Can you identify a variety of		30.5		Wouldn't it be great if you could make your
different food just by smelling	Count how many beats your heart takes in 20	Do you think its possible to make fireworks with	Do you think its possible to create an endless	gummy bears bigger? Well now you can.
them? Choose 5 different items	seconds and take a note. Now do 20 star	just a glass, vegetable oil and food colouring?	supply of spring onions from only one Spring	
and then see if you can guess	jumps really quickly. Measure your heart beat	What do you think is going to happen?	Onion?	Check your bear every couple of hours and
what they are by smelling them.	again.	Why do you think the food colouring reacted like	This is one of my favourite experiments because	take a note of whether it has gotten bigger or
Remember no peaking!	Is your heart beating faster or slower?	this?	you get to eat the results.	not.
How many did you guess correctly?	Why do you think this is?	https://www.youtube.com/watch?v=JgNOuNhOOkg		https://www.youtube.com/watch?v=qRjS8xLs6
			https://www.youtube.com/watch?v=vrOJ950/J	wd
Coloured Celery	Bright as a new Penny	What Lives on Us(Germs)	Grow a bean in a bag(germination)	Floating Rice Bottle 🛛 🛁
SCN 0-07a	SCN 2-19a 🥮	SCN 0-13a		SCN 0-07a
	Place a penny in a glass of fizzy juice,	Rub your hand on a piece of bread and place it in	SCN 0-0la/SCN 0-03a	
Do you think its possible to change	preferably Coke. Leave the penny over night.	a bag. Now wash your hands. Take a second piece	THE R.	Do you think you could lift a bottle full of
the colour of celery?		of bread and rub your hand on it before placing	Grow your own bean using only a wet paper	rice with just a skewer?
What do you think will happen if	What do you think will happen to the penny?	it in a bag. Place your bags on the windowsill.	towel, a plastic cup and a bean.	Discuss what you think will happen before you
you place sticks of celery in glasses	Does this put you off drinking fizzy juice?		Take a note of what you see each day.	try the experiment. Where you correct?
of water with food colouring?		What do you think will happen?	If you use a clear cup you will see the roots.	https://www.youtube.com/watch?v=Puhvz4Yj
https://www.youtube.com/watch?v		Do you understand the importance of washing your	https://www.youtube.com/watch?v=U9SWwnWe	00
<u>=YovAfRptl9A</u>		hands properly?	OVQ	







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Forces and Motion	Forces and Motion 👱 🥣 😓	Materials	Materials	What Lives on Us
SCN I-07a A force is a push or a pull. Forces can make object move or stop, speed them up or slow them down. If you push a toy car it moves, if you push it harder it moves faster. Forces can also make objects change direction or shape. You may wish to watch this video for more information: https://www.bbc.co.uk/bitesize/topics/zn77/hyc/articles/zptckqt You may also choose to watch this for lots more examples of forces: https://www.youtube.com/watch?v=EFO2_3 jiNkM Create a Venn diagram that shows things you can push, things you can pull and things that you can push and pull. You can look for inspiration around your home and on your daily excursion.	SCN 1-07a Using your knowledge of forces and motion can you create a new game that needs you to push or pull, using any toys or things from around the house. You could write out the rules and play it with the people or person in your home. You could also think of exercises that require you to push or pull. Can you persuade the people or person you live with to join in and practice them with you?	SCN I-I5a Here are some examples of materials and their properties: Cotton wool - soft, fluffy, easy to pull apart, not magnetic Steel - strong, heavy, cold, smooth, sinks, magnetic Find items in your home and classify them using their properties. Label each group you have sorted with the properties they all have in common. You may choose to create a Venn diagram to sort them or use boxes to separate them. It's up to you!	SCN 1-15a We will continue to explore materials and their properties through a scavenger hunt on your daily walk. Can you find something – magnetic, strong, bendy, that floats (How will you test this?), transparent (see through), brittle (breaks easily, rough, stretchy, smooth, heavy. You may wish to photograph the objects you find or you can discuss them and take the memories away with you.	(Cerms) SCN I-I3a Rub your hand on a piece of bread and place it in a bag. Now wash your hands. Take a second piece of bread and rub your hand on it before placing it in a bag. Place your bags on the windowsill. What do you think will happen? Do you understand the importance of washing your hands properly?
Friction SCN 1-04-a Choose a toy with wheels or a ball and create different surfaces for it to roll down. You could use one slope and change the surface to ensure it is the same height each time. You only want to introduce one variable i.e. surface friction. Remember to make a prediction about which surface will provide the least and the most amount of friction, just like a scientist. You can time your toy on each surface e.g. cloth, sandpaper, corrugated card, plastic, wet plastic, tissue, Sellotape, foam, a line of Lego or Duplo. You may choose to watch these videos for more information on friction: https://www.youtube.com/watch2v=C7NPD9WOkro https://www.youtube.com/watch2v=D23SNc6IcRA	Floating Ping Pong Balls SCN 1-07a Can you make two ping pong balls float in the air with a hairdryer without them touching? Write down or discuss your prediction with an adult. Why do you think this happens? No cheating but here's the answer. https://www.youtube.com/watch?v=V2deFgyj3XQ Only use cold air and an ADULT MUST be present.	<ul> <li>Inertial Eggs – Momentum SCN 1-07a</li> <li>Materials – One hard boiled egg, one fresh egg and one parent.</li> <li>Spin each egg, one hard boiled and one fresh, on a table.</li> <li>Leave it to spin for a few seconds then momentarily stop it by placing your finger on top.</li> <li>Release the egg and observe what happens next.</li> <li>Why do you think this happened? Write your own explanation.</li> <li>https://www.youtube.com/watch?v=Av.j7ZOCXFE</li> </ul>	Coloured Carnations SCN 1-05a Materials -White carnations, two colours of food dye, Plastic cups, Water and Scissors. I. Use the scissors to cut the stem of the carnation in half lengthways. 2. Take two cups and fill them with water. Add a different coloured food dye to each cup. 3. Put the split stems of the carnation into the cups and leave overnight. 4. The next morning you should find that your flower has changed colour. 5. What do you notice	Dancing Raisins SCN 1-07a Do you think you can make raisins dance up and down in a glass of fizzy juice? Predict what will happen or discuss with an adult. I. Pour the can of soda into the tall glass. 2. Notice the bubbles coming up from the bottom of the glass. The bubbles are carbon dioxide gas released from the liquid. 3. Drop a few raisins into the glass. Watch the raisins for a few seconds. Describe what is happening to the raisins.
Water, Ice and Water (Resources – Ice, 3 cups, lamp) SCN 0-05a / SCN 1-05a 1. In cup 1 place an ice cube on its own. 2. In cup 2 place an ice cube underneath a thin layer of crussea ice. 3. In cup 3 put in an ice cube underneath a thin layer of crussea ice. 3. In cup 3 put in an ice cube underneath a thin layer of crussea ice. 3. In cup 3 put in an ice cube underneath a thin layer of crussea ice. 3. In cup 3 put in an ice cube underneath a thin layer of crussea ice. 3. In cup 3 put in an ice cube underneath a thin layer of crussea ice. 3. In cup 3 put in an ice cube underneath a thin layer of crussea ice. 3. In cup 3 put in an ice cube underneath a thin layer of crussea ice. 3. In cup 3 put in an ice cube underneath a thin layer of crussea ice. 5. Draw a picture or write down what you think the ice will look like after ten minutes. Will it melt? Will it stay the same? 6. What happened in each cup? Discuss why you think this happened and then read the information below.	Make your own Invisible Ink SCN 2-19a You need a piece of paper, a cotton swab, a heat source (a lamp), and milk or lemon. Dab a cotton swab into lemon juice or milk and write your message on a piece of paper. Allow your message to dry and then ask an adult to hold your picture close to a lamp. After a few minutes your message should appear.	Floating Paper Clips SCN 2-08b Do you think its possible to make a paper dip float? I. Fill the bowl with water. 2. Tear off some tissue paper (around 4 in x 2 in). 3. Gently place the tissue paper onto the surface of the water so that it floats. 4. Place the dry paper dip on top of the tissue. 5. Use the rubber end of the pendi to carefully poke until the tissue sinks and the paper dip is left floating. Can you make anything else float? Record your findings.	about the petals?	https://www.youtube.com/watch?v=mECCivj4//_A



# Wester Cleddens Literacy Grid Spicy



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How have plants benefited society? SCN 2-Ola Research how plants have benefited society, for example, in medicine, dyes, fuels, construction etc. You may choose to create a PowerPoint, film yourself giving a presentation, create a poster or design a leaflet. https://www.woodlandtrust.org.uk/blog/2018/Ot-/why_ plants-are-important/ https://www.factmonster.com/dk/encyclopedia/science/medi cinal-plants https://graniteseed.com/blog/how-do-plants-help-prevent- erosion/	What Lives on Us (Germs) SCN 2-13a Rub your hand on a piece of bread and place it in a bag. Now wash your hands. Take a second piece of bread and rub your hand on it before placing it in a bag. Place your bags on the windowsill. What do you think will happen? Make a diary of what you see each day. Why do you think this is happening? Do you understand the importance of washing your hands properly?	Friction SCN 2-07a This task has two parts: 1. Describe the different types of friction in your own words. 2. Find a way to demonstrate one type of friction. You could use videos, photographs, diagrams a poster or any way you feel suits your example best. https://www.blc.co.uk/bitesize/topics/zsosbk/articles /xaqrdxs https://www.ducksters.com/science/friction.php https://www.theschoolrun.com/homework= help/friction-and-resistance	Balloon Kebabs SCN 2-08a Materials – Balloons, vegetable oil, skewers and adult supervision. Do you think its possible to push a wooden skewer through a balloon without bursting it? Make a prediction as to whether or not you think this is possible. Have a couple of attempts and then watch this video. https://www.youtube.com/watch?v=PNXbW221.at 8 Research why this happens.	Forces Hunt SCN 2-07a/SCN 2-08a Find an example of air, water and surface resistance. Find an example of gravity and of magnetic force. Find an example of a machine that uses levers or pulley systems to do its job. Document them anyway you want or discuss them with an adult. You may wish to create examples rather than look for them.
Classification of Plants SCN 2-Ola All plants can be sorted into two groups, flowering and non- flowering. To find out about flowering and non-flowering plants watch the video using this link: https://www.youtube.com/watch?v=nzD7sMIS9Pk https://www.ducksters.com/science/biology/flowering.plants.p hp create a poster with a description of what flowering and non-flowering plants are. On this poster sort flowers into the two groups.	Make your own Sundial Materials - Stick, rocks or chalk, I cup of playdoh (optional), watch or clock. Find a sunny spot in your garden. Put the stick in the ground or playdoh upright. Throughout the day, place a rock, or mark with chalk for each hour indicating where the shadow falls at that time. Depending on your time, you may have to place rocks over a couple of days before your sundial is complete. SCN I-06a	Classification of Animals SCN 2-01a You may have seen branched keys before in magazines or comics. Scientists use them to help classify and identify living things. For information on what a branched key is please visit the links below: https://www.bbc.co.uk/bitesize/topics/zxjj6sg/articles /zefbcwx https://www.youtube.com/watch2v=pvzoleWxsl0 - more in depth explanation with an example. Choose to focus on invertebrates or vertebrates and create your own branched key.	Expanding Clases SCN 2-08a Materials – Two bowls, cold water and hot water, Plastic bottle and a balloon Find out what happens when gases are heated up or cooled down. Make a prediction as to what will happen. I.Fill two bowls – one with cold water and one with hot water. Place the bottle into the cold water and attach a balloon to the neck of the bottle. 2.Place the bottle into the hot water. Record what happens.	Non Newtonian Fluid (Lots of fun) SCN 2-05a/SCN 2-15a Matter is either a Solid, a Liquid or a Gas. Is it possible for matter to fit into more than one of these categories? Can an Item be both a solid and a liquid? Try the following experiment and find out. WARNING – THIS COULD GET MESSY! https://www.youtube.com/watch?v=Fnd= 2.jetTiw
Tornado in a Bottle SCN 2-08b Do you think its possible to make a tornado in empty drink bottles? Materials – Two I or 2 litre bottles, washer, duct tape, large bowl, water and adult supervision. You could record your findings by filming your experiments or writing down your findings. https://www.youtube.com/watch?v=-ZirFmGi.dE https://www.youtube.com/watch?v=mzw3DcDbllg	Awe and Wonder - Cornflower Slime SCN 2-15a Materials - Cornflower, food colouring, water, large bowl, aprons and a large area because its going to get messy! https://www.youtube.com/watch?v=eRrREeXzNmw Could you create your own step by step instr making slime?	Fun with Density SCN 2-05a/SCN 2-16a Density is how much mass is in volume. One way to illustrate density is to pour liquids (which have a different density) on top of each other. The liquids with the greater density sink to the bottom. Pour the exact same amount of honey, golden syrup, washing up liquid, milk, water and vegetable oil(In that order)into a glass. Colour the water and milk for more fun. Record your findings. https://www.youtube.com/watch?v=Z50.FiligNQ	Make your own Lava Lamp         Materials - Water, Vegetable Oil, Plastic Bottle, Food Colouring, Effervescent Tablet.         SCN 2-05a/SCN 2-16a         Method         1. Fill the bottle or jar a quarter full with water.         2. Top up, almost to the top with the vegetable oil         3. They should separate into two layers, water at the bottom and oil sitting on top.         4. Add about 6-8 drops of food colouring once the oil and water separate.         5. The colour will mix with the water at the bottom.         6. Pop in half an effervescent tablets and watch the bubbles form. Add more effervescent tablets bit by bit to keep the bubbles rising and falling         https://www.youtube.com/watch2v=nCA78ZT94-lo	