

2021

SUMMER CHALLENGE



1. Starry Night	2. History Hunters	3. Secret Instruction
<p>Vincent Van Gogh was one of the most famous artists of all time. Van Gogh often took inspiration from looking up at the beautiful night sky. Create your own masterpiece inspired the view of the night sky from your home or garden. You could use paints like Vincent Van Gogh or put your own spin on it with pencils and paper, a 3D collage, or use chalk on the pavement or a stone wall.</p>	<p>Travel in time with a scavenger hunt! With 2 or more players, each player's goal is to find the oldest coin. Great places to look are piggy banks, down the sides of furniture, the pavement, park or beach (use gloves and stay safe if searching outdoors!). The player who finds the oldest coin wins. What can you discover about the year the coin was made from its pictures or writing?</p>	<p>Hide a secret instruction with DIY invisible ink. You'll need: lemon juice, water, bowl, paper. Squeeze lemon juice into a bowl, add a few drops of water and mix. This is your invisible ink. Use a brush or finger to write a silly action for a friend to do. It'll disappear as it dries. Your friend will need to slightly heat the paper to reveal it (use the sun, light bulb or radiator). When they do the action, you know it's worked!</p>
4. Pavement Paint	5. Cracking Clepsydra	6. Make A Pantograph
<p>You'll need: Cornflour, water, bowl, food colouring, 1 container for each colour, painting materials (brushes, sponges, or recycled materials to make interesting shapes). Add 1 cup of water to 1 cup of cornflour. Mix until there are no lumps. Separate the mixture into different containers, 1 for each colour. Mix a few drops of food colouring into each container to make different colours. Once mixed, grab your paints and chosen tools and get creative on the pavement! Make sure to wash the paint off when you're done.</p>	<p>You'll need: 1 plastic bottle (works best with a 2L bottle), scissors, drawing pin/needle, marker pen, food colouring (optional), timer. Measure halfway down the bottle from the lid and cut it in half to separate the lid and the base. Make a hole in the lid with your pin (ask an adult to help). Fit the top into the bottom so the lid is facing down. Mix some colour into the water. Start your timer and pour the water through the lid to filter into the base. Mark where the water is every 60 seconds for 10 mins. Use your new clepsydra to time yourself doing a task, like making a drink or tidying up!</p>	<p>You'll need: 2 large cardboard strips (2 inches wide by 8 inches long), and 2 smaller cardboard strips (2 inches wide by 4 inches long), 2 pencils, glue or tape. Arrange the big pieces in an 'L' shape. The small pieces will be in a backwards L shape between the two larger pieces (forming a small square in the middle). Attach with glue or tape. Use a pencil to punch a hole at the top of one of the long pieces (hole A), and another where the two small pieces of cardboard make a corner (Hole B). Put pencils in Hole A and Hole B and get drawing! What can you create?</p>
7. Living Map	8. Incredible Edible Ices	9. Wind Power
<p>Make your street or area into a living adventure map! Use washable chalks or your pavement paint from activity 4. Think about some of the most fascinating or unique places in your area. Stay safe and ask an adult before you head out to mark the trail. Mark the pavement with arrows, clues or signs to help others find the best spots! Can a pal follow your trail?</p>	<p>You'll need: (for DIY lolly mould) yoghurt pots, cocktail/lolly sticks, (for lolly base) fresh or frozen fruit, (optional extras) edible decorations, marshmallows, biscuits, spreads, nuts. Invent a healthy and delicious ice lolly! Make fresh or frozen fruit part of your lolly base. Add fun flavours with extras like herbs, yoghurt, sprinkles, spreads or sweets. Is your final product what you imagined?</p>	<p>You'll need: 1 piece of cardboard, 4 pencils / paper straws, 1 piece paper, 4 clean, used bottle caps. Design and build a wind powered car from the materials above. Write instructions to help someone else recreate your model. Would you add or remove any materials next time? Make sure you include any helpful hints or tips that helped your car work better. For extra fun, can you improve your design to make it go faster?</p>

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10. ORIGAMI BOOKMARK	11. BUTTERFLY FLUTTER BY	12. JUNK JEWELLERY
<p>Make a corner bookmark for you or a friend! You'll need: Square piece of paper.</p> <p>1) Start with your paper on a flat surface with a corner facing you. 2) Fold the paper in half, into a triangle, with top point facing away. 3) Fold the bottom left corner up to meet the center point at the top and crease firmly. 4) Repeat with the right corner to make a small diamond & unfold to make a triangle. 6) The top corner of the triangle is now made up of two slices of paper. Fold the top slice only down to make a pocket. 7) Fold the right point back up to meet the centre, and tuck it under the pocket. 8) Repeat with the left point.</p>	<p>Summer is a great time to spot butterflies. As well as displaying their fancy patterns which are beautiful to see, butterflies are important pollinators who help plants and animals grow and thrive. Find out about the identifying features of 3 of the UK's most common butterflies: The Painted Lady, a Large White Butterfly and a Speckled Wood Butterfly. Can you spot them in the wild, or find pictures in books/online? Can you observe them to find out which flowers or plants they like best?</p>	<p>You'll need: Rescue clean stuff from the recycling (like plastic, newspaper, cardboard), string, scissors, glue/tape (optional), decorating materials like paint, chalk, pens or crayons. Get creative to make some jewellery from your fantastic finds! It's up to you how you make it, here are a few hints. Tightly wound long, thin strips of newspaper/magazine make great beads. Cardboard and plastic can be cut into impressive pendants. Plastic ties from bread can be sculpted into new shapes. Safety pins make good brooches or fastenings.</p>
13. I SPY WITH A TWIST	14. MARVIN THE MAGNIFICENT	15. SHADOW BUDDIES
<p>You've probably played the classic game I Spy. Here's a version with a little twist!</p> <p>You'll need: 2 or more players and some interesting scenery.</p> <p>Player 1 says 'I Spy with my little eye, something beginning with...' and the others guess. Then player 2 says 'I Hear with my little ear, something beginning with...' and other players guess what they heard. Continue until you've gone through all 5 senses. Which is your favourite to get others guessing about?</p>	<p>Amaze with this simple illusion. First, draw an elephant on a scrap of paper. Meet Marvin the Magnificent! Do you think you can make Marvin turn the opposite way without turning the paper over? You'll need: A rounded glass, some water, some razzle dazzle to perform the trick, and Marvin! Fill up the glass with water. Place Marvin behind the glass so you are looking through the glass at Marvin. What happens?</p>	<p>You'll need a partner to help, washable pavement paint (activity 4) or chalk, and a clear pavement. Ask a friend to trace round your shadow, then trace theirs. Now it's time to create your shadow buddies. You can chalk/paint your own portraits, or swap places and create in your partner's shadow. Got the hang of it? Why not experiment with creating shadow portraits at different times of day. How does the sun's position in the sky change the way your shadow buddy looks?</p>

USEFUL LINKS

Learn about Vincent Van Gogh:

www.tate.org.uk/kids/explore/who-is/who-vincent-van-gogh

Pavement paint step-by-step:

www.makeandtakes.com/sidewalk-chalk-paint

Clepsydra (Water Clock) instructions:

www.natgeokids.com/uk/home-is-good/make-a-water-clock/

Pantograph step-by-step:

www.instructables.com/Homemade-Pantograph/

Video instructions for origami bookmark:

www.youtube.com/watch?v=BEwlfvqo18

Logging your credits

- 1. Take part** outside of normal lesson time. This can be weekends, evenings, holidays or breaks between lessons.
- 2. If you're a CU member, remember to log your Aspire credit** at www.CUS-Aspire.com
(Check out this video if you need help using Aspire > vimeo.com/322788423)
- 3. Share your stories** with us – we love to hear how you're getting on with our challenges!



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