

Topic Learning - Over the Rainbow

Week Beginning 4th May



Why is colour and light so important to us?

Suggested Activities to choose from

Key Stage 1	Key Stage 2																		
<p>Science -</p> <ul style="list-style-type: none"> • Research/Name a plant for every colour of the rainbow. Do you have a rainbow of colours in your garden, or in your house? • Can you see a rainbow of colours when you go for a walk ? • Make a rainbow https://www.funology.com/?s=rainbow <p>Computing - Use Paint program to create a picture using different colours or shades.</p> <p>Art - Create a colour wheel. Can you mix the primary colours together to make secondary and tertiary colours? Do you know which colours you need to mix to make orange, green, indigo, violet, pink, brown</p> <p>D&T - Design and make a model lampshade for a particular place. Will it be for a beach café, a rural hotel, a forest den, a palace, your home? It can be as original or quirky as you like.</p> <p>Design some sunglasses. Extension to look at different materials you might use that would protect your eyes from the sun but still allow you to see through them.</p> <p>Music - *Listen/Sing/Learn to a song 'Somewhere over the rainbow', ' I can sing a Rainbow' or 'I'm singing in the rain.' For younger children Rainbow Rainbow Mother Goose Club Kids Karaoke on Youtube is a nice song to listen to. *Can you make up your own song about the colours of the rainbow?</p> <p>History - Find out which colour was so unusual it became a royal colour. How did they make it?</p>	<p>Science -</p> <ul style="list-style-type: none"> • How are rainbows created? Why do they occur? create a poster to show this. • Go on a shadow hunt around your garden or in your house. Use light to make shadows in your garden or house and draw around them. Look how it changes throughout the day. What do you notice? • Can you find out about natural dyes? Many plants can dye fabric. If you are feeling brave try https://muddyfaces.co.uk/activity/natural-dyes/ • https://funlearningforkids.com/rainbow-walking-water-science-experiment-kids/ <p>Computing - use turtle LOGO to make a rainbow coloured picture.</p> <p>Colors setcolor X</p> <p>Will set the turtle color according to the following table</p> <table border="1" data-bbox="742 1272 1177 1579"> <tbody> <tr> <td>0: black</td> <td>1: blue</td> <td>2: green</td> </tr> <tr> <td>3: cyan</td> <td>4: red</td> <td>5: magenta</td> </tr> <tr> <td>6: yellow</td> <td>7: white</td> <td>8: brown</td> </tr> <tr> <td>9: tan</td> <td>10: green</td> <td>11: aqua</td> </tr> <tr> <td>12: salmon</td> <td>13: purple</td> <td>14: orange</td> </tr> <tr> <td>15: gray</td> <td></td> <td></td> </tr> </tbody> </table> <p>Example: setcolor 1</p> <p>https://turtleacademy.com/playground</p> <p>Use scratch https://scratch.mit.edu/projects/editor/?tutorial=getStarted to make an animation using the rainbow sprite. Can you move the rainbow, make it bigger or make it say something? See below for Mrs Davis's effort!</p> <p>Art - Make a tonal card. Fold a strip/piece of paper repeatedly creating lots of smaller rectangle shapes on the paper. Paint a primary colour in the middle rectangle. Add a blob/spoon of white to make a new shade of your primary colour and paint the rectangle below your original colour.</p>	0: black	1: blue	2: green	3: cyan	4: red	5: magenta	6: yellow	7: white	8: brown	9: tan	10: green	11: aqua	12: salmon	13: purple	14: orange	15: gray		
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Explore which colours famous artists of the past used, e.g. Monet, Jackson Pollock, Van Gogh or Pier Mondrian. Tate Kids is a great resource for inspiration and information.

<https://www.tate.org.uk/kids>

Geography - What colours would you see in an urban area (the city, or in a factory), in a rural area (the countryside), a coastal area (beach, cliff tops, harbours)? Draw a picture of one of these areas.

PE - whole school:

*Make up a game, a workout, assault course in the garden using the colours of the rainbow, e.g Red Reach for the stars, Orange Overhead Shoulder Circles, Yellow Yo Yo jumps, Green Great Squats, Blue Burpees, Indigo Impressive push ups, Violet Very good star jumps.

*Create a dance to somewhere over the rainbow or I can sing a rainbow.

Make up a snakes and ladders game where you have to do activities on each one of the squares.

Keep adding white to make new shades of your primary colour and paint each rectangle until you reach the bottom of the paper. Then add a small amount of black to your primary colour to make darker shades of your primary colour and repeat painting the new shades you make up the paper.

D&T - Create a light box. Take a shoe box. Put a secret object in the box and seal it. Cover your mystery light box in dark paper or paint/decorate it, if you like. Next, make one small hole with a pencil in one end of the box about half way up. Make a bigger hole about the size of a 2p or 10p coin in the opposite end. Try and see what is in the box using different light sources. You need to look through the small hole and have a light source at the big hole of the box. For example, hold torch light to the larger hole and look through the smaller hole to see what is in the box. Then try sunlight and an electric lamp. Finally with the help of a responsible adult you could carefully see what you can see using a candle (flame/fire) as a light source. Which is the best light source for seeing in the box (battery, flame, electric, sunlight)?

Music - *Listen/Sing/Learn to a song 'Somewhere over the rainbow', ' I can sing a Rainbow' or 'I'm singing in the rain.' For younger children Rainbow Rainbow Mother Goose Club Kids Karaoke on Youtube is a nice song to listen to.
*Can you make up your own song about the colours of the rainbow?

History - How did people create light in the past before electricity and the light bulb? Who created the lightbulb?
*Who was Richard of York and did he really die in battle?

Geography - What colours would you see in an urban area (the city, or in a factory), in a rural area (the countryside), a coastal area (beach, cliff tops, harbours)? Draw pictures to compare these areas.

Joe Wicks daily activity

Go Noodle Kids

"Wizard of Oz" Cosmic kids Yoga Adventure https://www.youtube.com/watch?v=j_3weVPH0-U

Scratch interface showing a script for a rainbow sprite. The script includes the following blocks:

- when this sprite clicked
- repeat 35
 - set size to 150 %
 - change size by 15
 - point in direction 90
 - say "Thank you!" for 5 seconds
- repeat 15
 - change color - effect by 25
 - wait 1 seconds
 - set color - effect to 0
 - wait 1 seconds
- when green flag clicked
 - set size to 100 %
 - go to x: -5 y: 3
 - point in direction 90
 - set color - effect to 0

The stage displays a rainbow graphic. The bottom right panel shows the Sprite Properties for the rainbow:

- Sprite: Rainbow
- Size: 100
- Direction: 90