Durham Lane Primary School: Topic Planning

**Topic:** Super Heroes/Earth and Space

Term: Autumn 1 and 2

<u>Class:</u> 5/6

•	Super heroes/Lutin and Space		<u>ctass.</u> 570
Subjects	Objectives	Skills	Activities/ Tasks
English	See progression sheets	See progression sheets	Here are some examples of writing tasks the tasks cover a range of genres and not all ta 1. After research, write fact files about superher 2. Invent own comic book hero and write fact 3. Narrative- create superhero descriptions 4. Retell the back story for a known superhero 5. Invent own superhero and write an adventu 6.Comic strip about superheroes to help with a 7. Write a newspaper report based on the 196 planet. 8. Write a poem (using question stems) about of 9.Write a non-chronological report about the s 10. Write a brief biography about one of the s heliocentric beliefs about the solar system. 11. Write short explanations about how the each how the moon orbits the earth. 12. Explanation posters showing the effects of 13. Recording of investigations, including expla- 14. Scientific reports about how light travels.
History	N/A	N/A	15. Recording of investigations into light and s
Geography		N/A	N/A
Science	Earth and space -Y5 10-13	Asking Questions & Planning Enquiries	Chd will be given KWL grids or equivalent to c
	Describe the Sun, Earth and Moon as approximately spherical bodies. Describe the movement of the Earth, and other planets, relative to the Sun in the Solar System. Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky. Describe the movement of the Moon, relative to the Earth. <b>Forces</b> Y5 14, 15 Explain that unsupported objects fall towards the earth because of the force of gravity acting between the earth and the falling object. Identify the effects of gravity and air resistance, water resistance and friction that act between moving surfaces. <b>Light</b> -Y6, 9-12 Recognise that light appears to travel in straight lines. Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. Explain that we see things because light travels from light sources to the eye or from light sources to objects and then to our eyes. Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.	<ol> <li>Use their science experiences to explore ideas and raise different kinds of questions</li> <li>Talk about how scientific ideas have developed over time</li> <li>Select and plan the most appropriate type of scientific enquiry to use to answer scientific questions</li> <li>Recognise which secondary sources will be most useful to research their ideas and begin to separate opinion from fact         Testing, Measuring &amp; Recording         Recognise when and how to set up comparative and fair tests and explain which variables need to be controlled and why         Make their own decisions about what observations to make, what measurements to use and how long to make them for         Choose the most appropriate equipment to make measurements with increasing precision and explain how to use it accurately. Take repeat measurements where appropriate.         Decide how to record data and results of increasing complexity from a choice of familiar approaches: scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs         Concluding         Use relevant scientific language and illustrations to discuss, communicate and justify their scientific ideas, use oral and written forms such as displays and other presentations to report conclusions, causal relationships and explanations of degree of trust in results         Evaluating         Use their results to make predictions and identify when further observations, comparative and fair tests might be needed         Weight be needed         Make their scientific ideas and resulted of the presentations of a provide and whit the needed         Make their scientific ideas and results of increasing complexity explanations of degree of trust in results         Measurements to a provide and industrations to discuss, communicate and justify their scientific ideas, use oral and written forms such as displays and other presentations to repor</li></ol>	light. They will be encouraged to ask questions investigation. <b>Earth and Space</b> Chd will learn about the different ideas of what help them. They will watch a PowerPoint called called 'Scientific ideas and evidence' to show the into fact and opinion. The chd will learn facts about the different plat research, writing and drawing. They will be shot them learn and remember these facts. They will then be taught about how the planet animations and PPT to show how this happens. They will then be taught about geocentric vers be read a story which tracks different beliefs a given the beliefs of different people and will ac Lesson 3 resources). The chd will learn about how night and day oc using a range of different sized spherical object then explain orally and in writing how day and The chd will look at a short PowerPoint about stages of the moon. They will make small mod rest of the class how these bodies rotate/orbit about this. <b>Forces</b> After completing a KWL grid or equivalent about have previously done on forces in KS1 and LKS forces that can act upon objects, including push They will then be given differentiated bingo ca they have to write it onto the correct place on them match the words to the pictures. Next the

s that children will complete during this topic. These I tasks will be undertaken: rheroes from comic books. ct files. ero after listening to the original. iture story involving them. n animation of Zimmertwins. 969 moon landings/an imaginary landing on a chosen at a planet, using figurative language. e solar system. e scientists involved in the change from geocentric to earth moves around the sun, how night and day occur and of air and water resistance, friction and gravity. planations, about forces.

o complete before finding out about planets, forces and ns which may be answered using research or by

hat shape the Earth is and will use some evidence cards to led Spherical Bodies and complete a differentiated activity their understanding. They will sort a range of evidence

planets and will complete a range of activities, including shown books, photographs, videos and PowerPoints to help

nets move around the Sun and will shown a range of ens.

ersus heliocentric beliefs about the solar system. They will across the ages, starting with early humans. They will be act out the story of how this belief changed over time. (See

occurs by being shown videos and photographs as well as ects to demonstrate how night and day occurs. The chd will ind night occur.

ut how the moon orbits the earth and about the different odels of the earth, sun and moon and will then show to the it around each other. They will write a short explanation

bout forces, the children will be reminded of the work they KS2. They will then be reminded on the different types of ushes and pulls, gravity, air resistance and water resistance. cards whereby the teacher calls out a force e.g. gravity and on their bingo mat. LA chd will have initial letters to help the chd will be given a story and will find the types of

	Super Meroes/Eurin and Space		<u>ctuss.</u> 5/6
			forces which are being used in it e.g the maging gravity pulling down. The chd will have weight and mass explained scales and Newton meters. They will be asked mass, make predictions and then draw conclust tables and then in a line graph showing how the equals approximately 100g. Write a short biography about Sir Isaac Newt Then the chd will be taught about air resistan imaginary parachute company who wants the asked to construct a fair test changing a rang observations they will make and will use meass measurements and be shown how to repeat the present their findings to the rest of the class. The chd will then be introduced to the concept variables that have to be taken into account v understand and to explain the concept of wate and be able to discuss what variables keep ver- Finally for forces, pupils will be introduced to cartoons with statements about friction and w <b>Light</b> Chd will be invited to share their ideas about travels. They will share ideas in groups, using unsure of. They will then be given information about how that object into the eye. They will create human we see things and will then create their own for Further work will be done on light reflection an They will investigate angle of reflected rays ar answers. Then the chd will work in pairs to mo over the top of their tables whilst sitting below The chd will use a range of prisms to investigato will be linked to art work on colour mixing an carry out an investigation about looking at ob making predictions, recording observations an language. Chd will be asked to think about what they kr called "Changing Shadows" where there will be sort into true/false. They will then be encourar object further from the light, will it make a big will the shadow change? If I use a bigger torc measurements to make, their predictions and for their conclusions and will share with the class.
Art	<ol> <li>To create sketchbooks to record their observations and use them to review and revisit ideas.</li> <li>To improve their mastery of art and design techniques,</li> </ol>	<b>Exploring/ Evaluating and developing ideas</b> - Develop sketch book - Select and record from observation, experience and imagination and develop	shadows are formed. <b>Exploring/ Evaluating and develop</b> Use a range of pencils and colours to trial idea Use a variety of stimuli e.g. pictures, toys, max
	including drawing and painting with a range of materials 3) Learn about great artists in history	ideas confidently, using suitable materials confidently - Question and make thoughtful observations about starting points and select ideas for use in their work, recording and annotating in sketchbooks - Improve quality of sketchbook with mixed media work and annotations - Develop artistic/ visual vocabulary when talking about own work and that of	Include photographs and annotations of their correct vocabulary about perspective, tone, sh Collect pictures of comic book heroes for use i superheroes.
		others - Begin to explore possibilities, using and combining different styles and techniques - Think critically about their art and design work	<b>Drawing</b> Sketch own superheroes, using imagination/ide draw from, using observational skills. Look at copy from.

# Teacher:

gician lifts a magic wand=magician's force pulling up,

ed to them. They will then carry out an investigation using ted if they think there will be a link between weight and clusions from their data. They will present their findings in w the heavier object will have a greater mass and that 1N

#### wton.

ance. They will be asked to make 3 parachutes for an hem to find which parachute falls the slowest. They will be nge of variables. They will be asked to decide which easurements as appropriate. They will then record their their test to ensure their results are correct. They will

ept of water resistance and will look at the different t when designing boats. They will use diagrams to ater resistance. They will complete activity sheets about this vessels afloat.

to the idea of friction. They will be given some concept I will discuss if they are true or false.

ut how we see things and then asked how they think light ng diagrams and adding questions about things they are

now light hits an object and how it is then reflected from man models using wool to show how light travels and how n labelled diagrams.

and the angle of reflected ray compared to incident ray. and will be involved in thinking of ways to record their make a periscope, using mirrors, that they can use to see low.

igate white light being refracted into different colours. This and how it is different to mixing coloured light. They will objects through different coloured filters. This will involve and using their results to give explanations, using scientific

know about shadows and will be shown a PowerPoint I be different statements about shadows which they must raged to think of questions to investigate e.g. if I move the bigger/smaller shadow? If I change the colour of my object, orch, will the shadow be bigger? They will think about what d their recording. They will be asked to give explanations e class. This will be written in an explanation text about how

## oping ideas

deas in their sketchbooks.

nasks for children to choose their own starting points.

eir work as it progresses, in their sketchbooks and encourage shading and light.

e in sketchbooks, use Paint on computer to create

ideas from other comic book heroes. Use actual pictures to at comic book artists and decide which ones they want to

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	<ul> <li>Drawing <ul> <li>Develop close observational skills</li> <li>Observe and use a variety of techniques to show the effect of light on objects and people e.g. use rubbers to lighten, use pencil to show tone, use tones of the same colour</li> <li>Look at the effect of light on an object from different directions.</li> <li>Produce increasingly accurate drawings of people</li> <li>Work on sustained, independent, detailed drawings.</li> </ul> Painting <ul> <li>Controlling and experimenting particular qualities of tone, shades, hue and mood</li> <li>Explore the use of texture in colour (link to texture unit) with sawdust, glue, shavings, sand and on different surfaces</li> <li>Use colour to express moods and feelings</li> <li>Explore the texture of paint – very wet and thin or thick and heavy – add PVA to the paint</li> <li>Develop painting techniques using different types of paint e.g. acrylic, water colour</li> <li>Demonstrate a secure knowledge about primary and secondary, warm and cold, complementary and contrasting colours</li> <li>Considering colour for purpose</li> <li>Carry out preliminary studies, test media and materials and mix appropriate colours</li> <li>Show an awareness of how paintings are created - consider artists use of colour and application of it</li> <li>Choose appropriate paint, paper and implements to adapt and extend their work</li> </ul> </li> </ul>	Look at how they could add light and shade toys, masks and other artefacts to explore the Sketch in different positions- close up, flying e Use different media e.g. pencil, paint, pastels, Look at phases of the moon and observe how appears in the sky. Do this as part of science <b>Painting</b> Look at Pop Art movement especially Roy Lic colour and shape to reflect mood. Look at the Pop Art movement using Tate is/pop-art Use photographs of themselves and then use Lichtenstein/Warhol https://thecraftyclassroom.com/crafts/famous- Use paintings by Warhol as inspiration to dev their own pop art words using different styles effect. <b>(Youtube pop art for kids Artimee</b> https://www.youtube.com/watch?v=N6P <b>Use You tube to show how to do letterin</b> https://www.youtube.com/watch?v=1Ji Look at primary, secondary and complemento when doing Pop Art style pictures. Explore us Then look at the work of Warhol when doing explore colour: https://www.youtube.com/watch?v=tyi Look at painter, Peter Thorpe's work. Explore Explore his use of colour and emulate using d at the effect on their backgrounds.

## <u>Teacher:</u>

to their drawings to make them look more realistic. Use e use of light.

etc.

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chalk, felt tips for their observational drawings.

the light of the sun makes a difference to how the moon lessons.

htenstein and Andy Warhol. Look at how these artists use

gallery https://www.tate.org.uk/kids/explore/what-

spotty paper to complete pictures in style of

artist-crafts-for-kids/andy-warhol-art-project-for-kids/

velop their own work in same style. Use YouTube to create of lettering, different colours and different patterns for **)** 

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### ng in pop art style (Mrs Bialy's Art Class) t6UuxT0

ary colours. Do colour wheels and use this knowledge e of colour in Pop Art. lips. Use the following Youtube video for children to

**ZPXKeKU** 

foreground and background and look at his abstract art. ifferent textures of paint e.g. add sand, PVA glue and look 

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