

• Drawing – Portraits of Elizabeth II (charcoal)

#### Science • Light

#### 0

# Climate/Environment

Solar power Investigations

|          | History   |                        |                         |  |  |  |  |
|----------|---|------------------------|-------------------------|--|--|--|--|
| Nat      | National Curriculum (Knowledge and Skills): Pupils should be taught about:  |                        |                         |  |  |  |  |
|          | Study of an aspect or theme in Britis   |                        | ls pupils' chronologic  | cal knowledge beyond 1066                  |  |  |  |
| Cur<br>• | <ul> <li>Curriculum Intent (Key knowledge to be learned):</li> <li>That British monarchs belonged to different 'houses' or families and the order in which key houses or families were in</li> </ul>  |                        |                         |  |  |  |  |
| •        | power.<br>That Richard III was the last monarch from the House of York and Elizabeth I was the last Tudor monarch.<br>Both monarchs were seen as heroes by some and as villains by others, examining some of the reasons and events behind<br>this including; Battle of Bosworth, War of the Roses, defeat of the Spanish Armada and execution of Mary Queen of |                        |                         |  |  |  |  |
| •        | Scots.<br>That historical evidence can be interpre<br>others.   |                        |                         |  |  |  |  |
| Age      | Related Subject Skills (Progression Gui   | dance):                |                         |  |  |  |  |
| •        | Develop increasingly secure chronologic   |                        | nderstanding of histo   | ory, local, British and world              |  |  |  |
| •        | Put events, people, places and artefacts  |                        |                         |  |  |  |  |
| •        | Use correct terminology to describe eve   |                        |                         |  |  |  |  |
| •        | Develop use of appropriate subject term   |                        |                         |  |  |  |  |
| •        |   |                        | -                       | similarity and difference and significance |  |  |  |
| •        | Suggest where we might find answers to  |                        | -                       |  |  |  |  |
|          | Understand that knowledge about the p<br>Construct and organise responses by sel  |                        |                         | rces                                       |  |  |  |
| •        | Be aware that different versions of the   |                        |                         | ons for this                               |  |  |  |
| •        | Describe and begin to make links betwe<br>societies   | •                      |                         |  |  |  |  |
| •        | Identify and give reasons for historical e  | vents, situations and  | l changes               |  |  |  |  |
| •        | Identify some of the results of historical  |                        |                         |  |  |  |  |
| •        | Describe some of the similarities and dif   |                        |                         |  |  |  |  |
| •        | Identify and begin to describe historical   | y significant people   | and events in situation | ons  |  |  |  |
| -        | or Learning   |                        |                         |  |  |  |  |
|          | ever Firs children working at ARE should  |                        |                         |  |  |  |  |
| •        | Develop, then demonstrate an awarene<br>Show where places, people and events  |                        |                         | ases relating to the passing of time       |  |  |  |
| •        | Begin to use dates  |                        | lological it affework   |  |  |  |  |
| •        |   | istorical terms, such  | as: a long time ago,    | recently, when my were younger, years,     |  |  |  |
| •        | Ask and begin to answer questions about involved?   |                        |                         |  |  |  |  |
| •        | Understand some ways we find out abo  |                        |                         |  |  |  |  |
| •        | Choose and use parts of stories and oth<br>Communicate understanding of the pas   |                        |                         | nts  |  |  |  |
| •        | Identify different ways that the past is re   |                        |                         | ations, films, song, museum displays       |  |  |  |
| •        | Discuss change and continuity in an asp   | -                      |                         |  |  |  |  |
| •        | Recognise why people did things, why se<br>actions or events  | ome events happene     | eu anu what happen      | eu as a result of people s                 |  |  |  |
| •        | Identify similarities and differences betw  | veen ways of life in c | lifferent periods, inc  | luding their own lives                     |  |  |  |
| •        | Recognise and make simple observation   | •                      | •                       | •  |  |  |  |
|          | important places and who was importan   |                        |                         |  |  |  |  |
|          |   | Key Voca               | abulary                 |  |  |  |  |
|          | Tier 1  | Tie                    | er 2                    | Tier 3                                     |  |  |  |
|          | King  | Monarch                | Advisor                 | Archeological                              |  |  |  |
|          | Queen   | Centuries              | Descendent              | Armada                                     |  |  |  |
|          | War   | Evidence               | Ruler                   |  |  |  |  |
|          |   | Execution              | Defeat                  |  |  |  |  |
|          |   | Crowned                |                         |  |  |  |  |
|          |   |                        |                         |  |  |  |  |
|          |   |                        |                         |  |  |  |  |

| Children working below ARE | Children working towards | ssessment               |                            |
|----------------------------|--------------------------|-------------------------|----------------------------|
|                            | ARE                      | Children working at ARE | Children working above ARE |
| P                          |                          |                         | S                          |

# Art and Design

# **National Curriculum:**

Pupils should be taught to:

- · create sketch books to record their observations and use them to review and revisit ideas
- improve their mastery of art and design techniques including drawing, painting and sculpture with a range of • materials (for example, pencil, charcoal, paint, clay)

Pupils should be taught:

• about great artists, architects and designers in history

## Curriculum Intentions (Key Knowledge and Skills to be learned):

- Drawing Portraits of Queen Elizabeth II

| Age Related Subject Skill   | s (Progression Guidance):   |
|---|---|
| <ul> <li>Age Related Subject Skill</li> <li>Year 3</li> <li>Developing Ideas (Sketchbooks) <ul> <li>Use a sketchbook to record media explorations and experimentations as well as try out ideas, plan colours and collect source material for future works.</li> <li>Identify interesting aspects of objects as a starting point for work.</li> <li>Use a sketch book to express feelings about a subject</li> <li>Make notes in a sketch book about techniques used by artists.</li> </ul> </li> <li>Annotate ideas for improving their work through keeping notes in a sketch book</li> <li>Drawing <ul> <li>Develop intricate patterns/ marks with a variety of media.</li> </ul> </li> <li>Demonstrate experience in different grades of pencil and other implements to draw different forms and shapes.</li> <li>Begin to indicate facial expressions in drawings</li> </ul> | <ul> <li>s (Progression Guidance):</li> <li>Year 4</li> <li>Developing Ideas (Sketchbooks) <ul> <li>Use sketchbooks to collect and record visual information from different sources as well as planning, trying out ideas, plan colours and collect source material for future works.</li> <li>Express likes and dislikes through annotations</li> <li>Use a sketch book to adapt and improve original ideas</li> <li>Keep notes to indicate their intentions/purpose of a piece of work</li> </ul> </li> <li>Drawing <ul> <li>Develop intricate patterns using different grades of pencil and other implements to create lines and marks.</li> <li>Draw for a sustained period of time at an appropriate level.</li> <li>Experiment with different grades of pencil and other implements to achieve variations in tone and make marks on a range of media. Have</li> </ul> </li> </ul> |
| Begin to show consideration in the choice of pencil grade they use.   | <ul> <li>opportunities to develop further drawings featuring the third dimension and perspective.</li> <li>Further develop drawing a range of tones, lines using a pencil.</li> <li>Include in their drawing a range of technique and begin to understand why they best suit. Begin to show awareness of representing texture through the choice of marks and lines made</li> <li>Attempt to show reflections in a drawing</li> <li>Begin to use media and techniques (line, tone, colour) to show representation of movement in figures and forms.</li> </ul>  |

#### **Developing Ideas (Sketchbooks)**

- Use a sketchbook to plan and develop simple ideas.
- Use a sketchbook to plan and develop simple ideas •
- Build information on colour mixing, the colour wheel and colour spectrums.

working at ARE should already be able to:

• See Progression guidance for year 3 above

| Collect textures and patterns to inform other work  |   |
|---|---|
| <ul> <li>Drawing</li> <li>Continue to investigate tone by drawing light/dark line patterns, light/dark shapes using a pencil.</li> <li>Draw lines/marks from observations.</li> <li>Demonstrate control over the types of marks made we media such as crayons, pastels, felt tips, charcoal, per</li> <li>Understand tone through the use of different grades 2B, 4B).</li> </ul>                     | vith a range of<br>n, chalk.  |
| Key Voc   | abulary   |
| Drawing   | Developing Ideas  |
| pencils, rubbers, crayons, pastels, felt tips, charcoal,<br>pen, chalk<br>hatching, scribbling, stippling, and blending<br>light/dark lines, light/dark shapes, light/dark patterns<br>tone, grades, HB, 2B, 4B etc<br>observation<br>Intricate patterns/marks<br>Media, grade, tone, line, colour<br>Facial expression<br>Third dimension, perspective<br>Technique, texture<br>Reflection, movement | Record, sketch book, plan, develop<br>Colour mixing, colour wheel, colour spectrum<br>Texture, pattern<br>Media exploration, experimentation, source material,<br>starting point, express, feelings, notes, annotate,<br>techniques,<br>Like, dislike, improve, adapt<br>Intention, purpose |

# Primary School –

| Art and Design Assessment   |                                 |                         |                               |  |  |  |
|---|---------------------------------|-------------------------|-------------------------------|--|--|--|
| Children working below ARE  | Children working<br>towards ARE | Children working at ARE | Children working above<br>ARE |  |  |  |
| Image: Control of the second secon |                                 | ar                      | S                             |  |  |  |
| _ S   | Sch                             | ool                     |                               |  |  |  |

# Science

National Curriculum (Knowledge and Skills): Pupils should be taught to:

# Light

- recognise that they need light in order to see things and that the dark is the absence of light
- notice that light is reflected from surfaces
- recognise that light from the sun can be dangerous and that there are ways to protect their eyes
- recognise that shadows are formed when the light from a light source is blocked by a solid object
- find patterns in the way that the size of shadows changes

## **Working Scientifically**

- ask relevant questions and use different types of scientific enquiries to answer them
- make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- gather, record, classify and present data in a variety of ways to help in answering questions
- identify differences, similarities or changes related to simple scientific ideas and processes
- report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- use straightforward scientific evidence to answer questions or to support their findings

# Investigation Focus:

#### Reflective materials

https://www.tes.com/teaching-resource/reflections-and-mirrors-6163976

## Climate/Environment Focus:

#### Children will learn:

- That energy from the sun can be used as a source of sustainable energy through solar power.
- About the benefits and limitations of solar power
- Solar power experiments <u>https://www.tomsofmaine.com/good-matters/thinking-sustainably/how-does-a-solar-panel-work-activities-that-teach-kids-about-solar-energy</u>)

# Prior Learning

# Forever Firs children working at ARE should already be able to:

#### Working Scientifically

- ask simple questions and recognise that they can be answered in different ways
- observe closely, using simple equipment
- perform simple tests
- gather and record data to help in answering questions
- identify and classify
- use their observations and ideas to suggest answers to questions

| Key Vocabulary |             |              |              |  |  |  |
|----------------|-------------|--------------|--------------|--|--|--|
| Tier 1         | Ti          | er 2         | Tier 3       |  |  |  |
| Light          | Reflected   | Fair         | Opaque       |  |  |  |
| Dark           | Reflect     | Test         | Transparent  |  |  |  |
|                | Reflection  | Systematic   | Light source |  |  |  |
|                | Surface     | Observation  | Sun light    |  |  |  |
|                | Protection  | Findings     |              |  |  |  |
|                | Shadow      | Table        |              |  |  |  |
|                | Absence     | Record       |              |  |  |  |
|                | Solid       | Data         |              |  |  |  |
|                | Shiny       | Differences  |              |  |  |  |
|                | Matt        | Similarities |              |  |  |  |
|                | Dull        | Evidence     |              |  |  |  |
|                | Enquiry     | Findings     |              |  |  |  |
|                | Practical   | Predictions  |              |  |  |  |
|                | Comparative | Width        |              |  |  |  |
|                |             | Measurement  |              |  |  |  |

Kara Mana haala

| Science Assessment         |                          |                         |                            |  |  |
|----------------------------|--------------------------|-------------------------|----------------------------|--|--|
| Children working below ARE | Children working towards | Children working at ARE | Children working above ARE |  |  |
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|   | Com   | puting  |  |  |  |
|---|---|---|--|--|--|
| Nation  | al Curriculum:  |   |  |  |  |
|   | e technology safely, respectfully and responsibly; recogn report concerns about content and contact   | ise acceptable/ unacceptable behaviour; identify a range of ways  |  |  |  |
| Key Lir<br>•  | n <b>es of Enquiry:</b><br>E-Safety   |   |  |  |  |
| <ul> <li>Pul that inf</li> <li>Pul university</li> <li>Pul vit</li> <li>Pul res</li> <li>Pul Pul Pul vit</li> </ul> | at are good for them to visit; but they also learn to be can<br>formation<br>pils learn to make good passwords for their accounts, lea<br>derstand the implications for the information that they s<br>thout their knowledge<br>pils are introduced to their roles as digital citizens in an of<br>sponsible not only for themselves but for others, in order<br>pils learn that the Internet is a public space and then dev<br>hers<br>Lower K   | warding online relationships and learn to recognise websites<br>utious and to check with a trusted adult before sharing private<br>arn about spam and how to deal with it. They begin to<br>hare online and how some websites might use that information<br>online community, where they reflect on how they are<br>to create a safe and comfortable environment<br>relop the skills to protect their privacy and respect the privacy of<br><b>ey Stage 2</b>   |  |  |  |
| Managing Online Information   | <ul> <li>gather accurate information online.</li> <li>I can explain what autocomplete is and how to choose the best suggestion.</li> <li>I can explain how the internet can be used to sell and buy things.</li> <li>I can explain the difference between a 'belief', an 'opinion' and a 'fact. and can give examples of how and where they might be shared online, e.g. in videos, memes, posts, news stories etc.</li> <li>I can explain that not all opinions shared may be accepted as true or fair by others (e.g. monsters under the bed).</li> <li>I can describe and demonstrate how we can get help from a trusted adult if we see content that makes us feel sad, uncomfortable worried or frightened.</li> </ul> | <ul> <li>understand why it is important to make my own decisions regarding content<br/>and that my decisions are respected by others.</li> <li>I can describe how to search for information within a wide group of technologies<br/>and make a judgement about the probable accuracy (e.g. social media, image<br/>sites, video sites).</li> <li>I can describe some of the methods used to encourage people to buy things<br/>online (e.g. advertising offers; in-app purchases, pop-ups) and can recognise<br/>some of these when they appear online.</li> <li>I can explain why lots of people sharing the same opinions or beliefs online do<br/>not make those opinions or beliefs true.</li> <li>I can explain that technology can be designed to act like or impersonate living<br/>things (e.g. bots) and describe what the benefits and the risks might be.</li> <li>I can explain what is meant by fake news e.g. why some people will create<br/>stories or alter photographs and put them online to pretend something is true<br/>when it isn't.</li> </ul> |  |  |  |
| Health well-being<br>and lifestyle  | <ul> <li>I can explain why spending too much time using technology can sometimes have a negative impact on anyone, e.g. mood, sleep, body, relationships; I can give some examples of both positive and negative activities where it is easy to spend a lot of time engaged (e.g. doing homework, games, films, videos).</li> <li>I can explain why some online activities have age restrictions, why it is important to follow them and know who I can talk to if others pressure me to watch or do something online that makes me feel uncomfortable (e.g. age restricted gaming or web sites).</li> </ul>  | <ul> <li>I can explain how using technology can be a distraction from other things, in both a positive and negative way.</li> <li>I can identify times or situations when someone may need to limit the amount of time they use technology e.g. I can suggest strategies to help with limiting this time.</li> </ul>  |  |  |  |
| Privacy and<br>Security   | <ul> <li>I can describe simple strategies for creating and keeping passwords private.</li> <li>I can give reasons why someone should only share information with people they choose to and can trust. I can explain that if they are not sure or feel pressured then they should tell a trusted adult.</li> <li>I can describe how connected devices can collect and share anyone's information with others.</li> </ul>   | <ul> <li>I can describe strategies for keeping personal information private, depending on context.</li> <li>I can explain that internet use is never fully private and is monitored, e.g. adult supervision.</li> <li>I can describe how some online services may seek consent to store information about me; I know how to respond appropriately and who I can ask if I am not sure.</li> <li>I know what the digital age of consent is and the impact this has on online services asking for consent.</li> </ul>  |  |  |  |
| Copyrig<br>ht and   | <ul> <li>I can explain why copying someone else's work from the<br/>internet without permission isn't fair and can explain what<br/>problems this might cause.</li> </ul>   | <ul> <li>When searching on the internet for content to use, I can explain why I need to consider who owns it and whether I have the right to reuse it.</li> <li>I can give some simple examples of content which I must not use without permission from the owner, e.g. videos, music, images.</li> </ul>   |  |  |  |
| Foreve<br>•   | <ul> <li>Prior Learning</li> <li>Forever Firs children working at ARE should already be able to:         <ul> <li>Pupils learn that the Internet is a great place to develop rewarding online relationships and learn to recognise websites that are good for them to visit; but they also learn to be cautious and to check with a trusted adult before sharing private information</li> </ul> </li> </ul>   |   |  |  |  |
| •   | <ul> <li>Pupils are introduced to the concept that real people send messages to one another on the Internet and learn how messages are sent and received. They recognise that it may be difficult to distinguish between someone who is real and someone who is not</li> <li>Pupils are introduced to the basics of online searching</li> <li>Pupils learn to explore websites and to say whether they like them or not and why</li> </ul>  |   |  |  |  |

| Key Vocabulary                                      |   |   |                                  |  |   |  |
|---|---|---|----------------------------------|--|---|--|
| Tie   | r 1   | Tier 2  |                                  | Tier 3   |   |  |
| owner<br>store<br>opinions<br>beliefs<br>frightened | adult<br>negative<br>positive<br>uncomfortable<br>worried | content<br>supervision<br>impact<br>respected | personal<br>distraction<br>limit | permission<br>context<br>restrictions<br>analyse | strategies<br>consent<br>pressured<br>judgement<br>accuracy |  |

| Computing Assessment       |                                 |                         |                            |  |  |  |
|----------------------------|---------------------------------|-------------------------|----------------------------|--|--|--|
| Children working below ARE | Children working towards<br>ARE | Children working at ARE | Children working above ARE |  |  |  |
|                            |                                 |                         | S                          |  |  |  |
| P                          | rin                             | har                     |                            |  |  |  |
|                            | Sch                             |                         |                            |  |  |  |
|                            |                                 |                         |                            |  |  |  |