



Navenby CE Primary School

Learning Challenge Curriculum Overview 2020

DT	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn	<p><u>Salt dough baking</u> <u>Stockings</u> <u>Candles</u> <u>Clay work</u></p> <p><i>To make healthy choices related to food</i></p> <p><i>Develop coordination, control & movement</i></p> <p><i>Develop skills in expressing themselves</i></p> <p><i>Describe shape, space & measure</i></p> <p><i>Making sense of their physical world and their community through opportunities to explore, observe and find out about people, places, technology and the environment</i></p>	<p><u>Making castles</u> Building structures, exploring how they can be made stronger, stiffer & more stable</p> <ul style="list-style-type: none"> • Link to science topic 'Materials' • Link to 'Castles' history topic 	<p><u>Tudor houses</u> Building structures, exploring how they can be made stronger, stiffer & more stable</p> <ul style="list-style-type: none"> • Link to science topic – recap Y1 'Materials' • Link to history topic 'Fire of London' <p><u>Bread making</u> Look at ingredients and where they come from (past & present). Discuss 'Is bread healthy'? Prepare & bake bread!</p> <ul style="list-style-type: none"> • Link to history topic 'Fire of London' bakers shop • Link to Science 'states of matter' <p><u>Christmas decoration sewing</u> Cutting, shaping, joining & finishing of materials & textiles</p>	<p><u>Stone age house making</u> Learn about stone age houses, how to make them using a wider range of materials, tools and equipment (including how to strengthen, stiffen & reinforce them) and compare to modern housing.</p> <ul style="list-style-type: none"> • Link to Stone Age topic 	<p><u>Christmas stockings</u> Use sewing / embroidery skills (plus pinning & chalking templates) with a variety of textiles to design & make stockings.</p> <ul style="list-style-type: none"> • Opportunity to add in lights to link to Science topic of electricity? • Link to history topic 'Victorians' when comparing past designs 	<p><u>Medieval pottery</u> Cutting, shaping, joining and finishing with clay.</p> <ul style="list-style-type: none"> • Link to Medieval Britain history topic 	<p><u>Animal Habitats</u> Choose, use, cut & join a variety of materials to make animal habitats (including how to strengthen, stiffen & reinforce them)</p> <ul style="list-style-type: none"> • Link to Science topic 'Living things & habits'

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Spring	<p><u>Vehicles</u> <u>Houses</u> <u>Cookery</u></p> <p><i>To make healthy choices related to food</i></p> <p><i>Develop coordination, control & movement</i></p> <p><i>Develop skills in expressing themselves</i></p> <p><i>Describe shape, space & measure</i></p> <p><i>Making sense of their physical world and their community through opportunities to explore, observe and find out about people, places, technology and the environment</i></p>	<p><u>Making fruit salads</u> Learn about healthy eating and where our food comes from</p> <ul style="list-style-type: none"> • Link to Science learning about plants to understand where the fruit comes from <p><u>Moving vehicles</u> Explore and use the mechanisms wheels & axels</p> <ul style="list-style-type: none"> • Link to history topic 'History of transport' 	<p><u>Healthy cupcake making</u> Learn about Jamie Oliver & healthy eating</p> <p><u>Futuristic flying machines (Planes)</u> Build structures and explore and use the mechanisms wheels & axels</p> <ul style="list-style-type: none"> • Planes linked to The Wright Brothers topic • Link to Science electricity topic by adding in a buzzer, light or spinner? 	<p><u>Greek food</u> Find out about Greek food, where their ingredients come from & seasonality, prepare and cook some dishes</p> <ul style="list-style-type: none"> • Link to Ancient Greeks topic <p><u>Making Greek shields</u> Learn about Ancient Greek shields, how to make them using a wider range of materials, tools and equipment (including how to strengthen, stiffen & reinforce them)</p>	<p><u>Indian Cuisine</u> Making & tasting naan breads. Discuss food hygiene, compare and contrast herbs and spices in our own gardens/pantries with those used in Indian cooking, where they come from & seasonality.</p> <ul style="list-style-type: none"> • Link to Geography topic 'India'. 	<p><u>Titanic models</u> Choose, cut and join recycled products.</p> <ul style="list-style-type: none"> • Link to Disasters history topic • Opportunity to add in lights/buzzers/spinners to link to Y4 Science topic of electricity? <p><u>Space Moon buggy</u> Revisit KS1 learning of axles & wheels. Use saws to cut and join wood for frames, and add axles & wheels to structure.</p> <ul style="list-style-type: none"> • Link to Science space topic and revisit science learning about mechanical systems 	<p><u>WW2 rationing cooking</u> Understand where food came from at the time & seasonality, discuss healthy eating and prepare and cook dishes.</p> <p><u>Anderson Shelters</u> Choose, use, cut & join a variety of materials to make WW2 (including how to strengthen, stiffen & reinforce them)</p> <p><u>Sewing & Knitting projects</u> Learn different stitches and knitting techniques</p> <ul style="list-style-type: none"> • All link to WW2 history topic

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Summer	<p><u>Mini beast houses</u> <u>Shelter building</u> <u>Treasure chests</u> <u>Cookery</u></p> <p><i>To make healthy choices related to food</i></p> <p><i>Develop coordination, control & movement</i></p> <p><i>Develop skills in expressing themselves</i></p> <p><i>Describe shape, space & measure</i></p> <p><i>Making sense of their physical world and their community through opportunities to explore, observe and find out about people, places, technology and the environment</i></p>	<p><u>Animal puppets</u> Explore and use the mechanisms levers and sliders using paper, card, fabrics, lollipop sticks & split pins</p> <ul style="list-style-type: none"> • Link to Science 'animals' topic 	<p><u>Bug hotels</u> Build structures using recyclable materials</p> <ul style="list-style-type: none"> • Link to Science topic 'Living things & their habitats' 	<p><u>Egyptian water pulleys</u> Learn about ancient and modern pulleys & levers and use these in their models</p> <ul style="list-style-type: none"> • Link to Ancient Egypt history topic 	<p><u>Enterprise project</u> (Recycled products) Research. Prototypes. Alter. Mass make. Cost/Gross Profit/Net Profit.</p> <p><u>Anglo-Saxon houses</u> Learn about Anglo-Saxon houses, how to make them using a wider range of materials, tools and equipment (including how to strengthen, stiffen & reinforce them) and compare to modern housing.</p> <ul style="list-style-type: none"> • Link to History topic 'Vikings & Anglo-Saxons' <p><u>Levers, Linkages & Gears</u> Brief coverage during coal mine visit - addresses coal carts and load & pull mechanisms</p>	<p><u>Make Tudor biscuits</u> Compare Tudor diet to today, where ingredients came from & seasonality to make biscuits.</p> <p><u>Sewing a Tudor Rose</u> Learn different stitches then use and join a variety of fabrics to sew and create a Tudor rose.</p> <ul style="list-style-type: none"> • All link to history topic 'Tudors' 	<p><u>Enterprise projects</u> Research, cost and design products for profit</p> <ul style="list-style-type: none"> • Link to History topic 'Life in the digital age'? • Opportunity to include electricity learning from science (e.g bulbs/buzzers)?

Teacher notes:

- **Design – make – evaluate!** Make these stages clear & evidence in children’s topic or science books.
- **Design – make – evaluate!** See National curriculum ‘Design Technology programmes of study’ for guidance in these areas for KS1 & KS2
- **Investigate – collaborate – be an entrepreneur!** Teaching process to include these elements where possible.
- **All NC objectives are covered in the overview**
- **Scratch or Espresso Coding** to be used by each class during the year to address DT objective ‘computing to program, monitor and control their products’ (See ICT overview)

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