

Expectations in Science during Remote learning

Curriculum Intent during Remote learning- the reason for learning remotely

Remote learning is essential for those children learning from home. We have fostered a blended approach to remote education to ensure learning is not disrupted and children can adapt to the changes implemented due to the pandemic.

Science is essentially understanding the world around us and is concerned with increasing pupils'/students' knowledge and developing skills associated with Science as a process of enquiry. While children are learning from home, it gives an opportunity to gain a deep understanding of their immediate environment and explore the outdoors. The outdoors provides an enormous number of opportunities for visual observation and as important as that is, it also affords a whole range of other sensory experiences. For this reason, class managers will provide learning opportunities that give children opportunities to investigate, observe, question, performing simple tests, identify and classify.

Our aim for learning in Science is based upon the principle that pupils/students enjoy the subject through memorable lessons that elicit interaction, discussion and thoughtful questioning at every level of ability.

What will remote learning look like in the subject?

Teachers at Villa Real know their pupils very well, know how their needs can be most effectively met to ensure they continue to make progress if they are not in face-to-face education.

Practical activities will be provided to allow children to explore and investigate and build on their natural curiosity and to shape it into scientific enquiry. These activities will allow children to observe and ask questions with intrigue and excitement and foster the importance of an enquiry-based approach to science,

Class teachers will set individualised assignments so that pupils have meaningful and ambitious work set weekly to cover the science topic reflected in the medium-term plan. Assignments and tasks provided will be

planned and well-sequenced to ensure knowledge and skills are built incrementally, with a good level of clarity about what is intended to be taught and practised in science.

Teachers have contacted families to discuss the most appropriate form of remote learning such as providing: work packs, sensory boxes, 1:1 Teams meetings, activity packs linked to the pupils' / students' learning intentions and learning platforms for the pupils to access online, such as Education City, Purple Mash, BBC Bitesize and topic webs. Expectations of new content is to have clear expectations and will be delivered by a teacher via TEAMS, through high-quality curriculum resources and/or videos.

Resources

The following are a list of websites which can be accessed remotely by families.

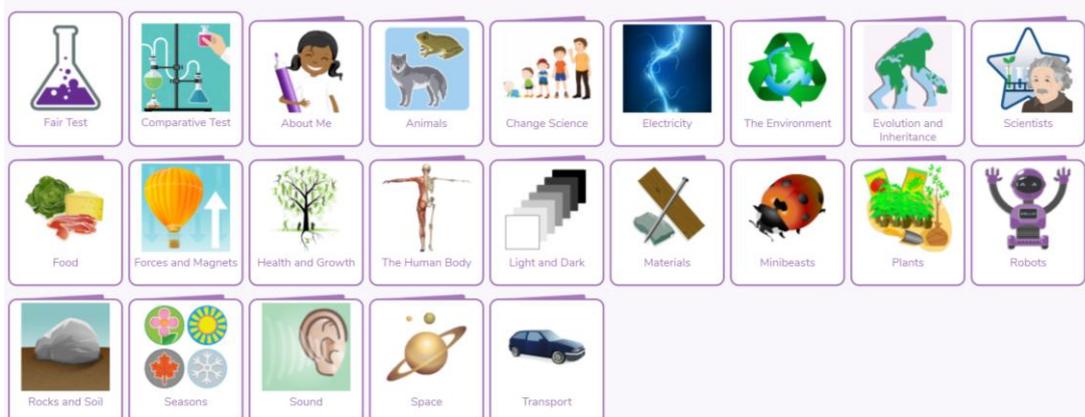
- School has access to Purple Mash is a creative educational website for children. It is a cross-curricular resource covering art to science and all subjects in between. Our pupils can access Purple Mash from home on a laptop, desktop or a tablet.

All pupils/ students have a login and a password. These should remain confidential and allow you and your child unique access.

Please click on the link to login to the school's Purple Mash:

<https://www.purplemash.com>

Topics:



- Education City is another website frequently used by children in school and at home. Children can access science Learn Screens, giving step-by-step tutorials to explain different processes or concepts visually. These

learn screens can also be paired with activities, they give the information which the Activity later tests and reinforces.

- **MERMAID TALES**

FRIDAYS AT 1:30 – 1:45PM

The content of the lessons will also help children to feel part of the start of the global UN Decade of Ocean Science for Sustainable Development. The live lessons will assist with home learning whilst also providing a chance for children and their parents/ carers and teachers to gain some of the wellbeing benefits that have been proven to come from watching aquatic life.

<https://m.youtube.com/user/NMAplymouth>



MERMAID TALES

FRIDAYS AT 1:30 –

1:45PM [EARLY YEARS]

- [Play Galaxy Pugs | Free Online KS1 Science Game for Kids - BBC Bitesize](#)

The sections in the game include animals, plants, human body, materials, habitats, insects

- <https://www.reachoutcpd.com/how-parents-can-help/>

Here are five fun activities you can do at home with your child using just household objects. Warning: you WILL make a mess, and that's half the fun!

- <https://www.sciencekids.co.nz/gamesactivities/materialproperties.html>

Properties of Materials - Science Games & Activities for Kids

Properties of Materials. Learn about the properties of materials as you experiment with a variety of objects in this great science activity for kids. Discover the interesting characteristics of materials; are they flexible, waterproof, strong or transparent? Play around with the objects and see what interesting facts you observe.

- <https://www.bbc.co.uk/cbeebies/puzzles/go-jettters-animal-tracks-quiz?collection=quizzes>

Do you know your animal tracks? - CBeebies - BBC

- <https://switchzoo.com/zoo.htm>

Zebra Habitat - Switch Zoo

Make new animals in Switch Zoo by switching the heads, legs and tails of 142 diverse species!

- <https://apps.apple.com/gb/app/inventioneers/id926202053>

Inventioneers: Can you build the perfect invention to complete the task at hand? Place the tools in the right place to help the Inventioneers solve the problem. In completing levels, you can earn parts to build your own levels! Available on iOS

- <https://studio.code.org/s/starwarsblocks/stage/1/puzzle/1>

Star Wars- build a galaxy with code. Complete these 15 coding challenges and become a computer whizz! In the earlier levels you must programme BB-8 to collect all the pieces of scrap metal and in later levels you have to programme a game featuring R2-D2 and C-3PO.

- <https://www.sciencekids.co.nz/experiments.html>
collection of science experiments for kids

How will work be assessed?

Work will be assessed by the child's class teacher using the BSquared system of either Progression steps, Engagement steps, Engagement model observations and Early Years.

The work may be submitted as photographs on Earwig, process or observed by class staff using Teams face to face meeting. In addition, parents/carers may send completed work into school which will then be quarantined for the appropriate time period (72 hours) before being assessed.

Education city assessment tasks may be used to see which areas within science children need to improve in, and each student is given a personalised Revision Journal.

Teachers will use the assessments to adjust the pace or difficulty, including, where necessary, revising material or simplifying explanations to ensure pupils' understanding.

How will feedback been given to pupils/students and parents/carers?

Work can be celebrated on the School's Facebook page (with parental/carer consent given). In addition written feedback can take place on the Earwig platform. Verbal feedback can be given over Teams.

Feedback will be given via voice recording where applicable on Purple Mash and progress gauged using questions and other suitable tasks.

For parents/carers not accessing Earwig, email correspondence or phonecalls can be used to relay feedback on their child's work. Where work has been returned to school, it can be stored appropriately and marked according the the School's Marking Policy.