

Foreword

A, h, f, i a, di, , h, - h, h, h, add d-a, ih i ad i i i a, , i , f, CA ada, , , , a f, , h, f, h i, i , , , h, adh i a i a i a di, , i , h a, h, ha h, - h, i, _h, ha da, id f, a id ai, , f, - , adhad , i , ih a, addii a , , i, h fi, d⊠ad, i- da a , h, - h, h ad i.

a'd, i, hiia, , a, fafa, 'fa-, ia, i C-i-, ih, -, a'd, i, h, i, ah, f, h, f, i, ah, di, ada - h, fa, i, ah, <u>h</u> fia, , d, ihi, h, CA, ia, i C-i-, a, '1 g, -h, h, di -, h, 2023 i E, jhad, h.

a' aich fill a daoin i chonna a dha - dill a' chonna a dha a' aich fill a chonna a dha - dill a' chonna a dha chonna a dha if chin a dadii ich chonna fill a dhalina a dha chonna a dha a - hicf ca dhonna chonna a chonna a dha chonna a chonna a a d- ah fa chonna a chonna a chonna a chonna a chonna a a d- ah fa chonna a chonna chonna a chonna a chonna chonna a chonna chonna a chonn

Main messages from the PCAG framework

Global citizenship _h CA - I-,- fa 、 (, i, i hi a id ji

| fia, d-ai: ha hid hi | f | i a, | d- | ai | :、 | h | a. | hid | hc |
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2. Rationale for the PCAG Primary Science Curriculum Framework

The PCAab

4. Development ofjfei

This PCAG Curriculum Framework for primary science Importantly, science curriculum content from a wide was constructed through an iterative process, by a range of jurisdictions was evaluated against these small group of primary practitioners and academics, criteria. Notably, an open-minded approach to the in regular consultation with a range of sector activity was important to allow for the inclusion experts from the following fields: of content which does not fit into the historically agreed way of organising science curricula. primary and secondary science education Using the criteria as an organising principle the Learned Societies for science and history resulted in some content that might be considered conventional not being included. Strenuous efforts developmental psychology were made to resist repeating 'historical' science curriculum diversification curriculum content and organisation, although it is acknowledged that the work has been constrained curriculum design by an epistemological rigidity inherited by the creativity in primary science writers' own schooling and teaching experiences.

- early years

and the second s _____ $(x, x_{i+1}) = (x, x_{i+1}) x_{i+1}$

7. The PCAG **Knowledge Maps**

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|---|---|--|---|
| | Science is universal, has been and is carried out in all cultures at all ages, creating a diverse | Scientists apply what they know to inform decisions and solve problems related to local and global challenges. | apply their scientific knowledge and findings to different contexts and problems, including personal, local and global. |
| | | science began before the European Renaissance, and has taken place across | value and respond to the contributions of others within and beyond their own community. |
| | scientific global community. | history and the globe. | learn about scientific endeavours throughout history with examples from different cultures and historical periods. |
| | | scientists make inferences, are curious and imagine possibilities. | be curious, demonstrating a passion for discovery,imagining possibilities. |
| | Science is a creative human endeavour which builds new knowledge to explain | scientists observe to ask and answer scientific questions to build explanations about the natural world. | ask, plan and answer their own scientific questions to explore possibilities and help explain the natural world. |
| | natural phenomena. | scientists work through an iterative enquiry process, in which answering one question often leads to other questions. | identify new questions that have arisen from an enquiry. |
| | Science is an empirically based process (based on or derived from observation of the natural world). | scientists make observations and collect, analyse and interpret data to test their ideas. | gather data by making and recording observations and measurements. |
| | | coientiste identificijnke, nottorne | analyse data to identify links, patterns and relationships. |
| | | scientists identify links, patterns and relationships. | understand how to differentiate between questions that science can or cannot answer. |
| | Scientific knowledge is tentative and subject to change | scientists present and explain their ideas and evidence, are receptive to new ideas and may not always agree with each other. | present and explain their findings to a range of audiences, inviting peer-review on their conclusions. |
| | based on new evidence or new interpretations of existing evidence. | scientists are sceptical, develop their ideas by using what they already know and new evidence. | review and question their own ideas and understanding, as well as those of others, to appreciate that over time, areas of science can change and develop in response to new evidence. |
| | Science is a rigorous discipline where it is | scientists adhere to the accepted | use different enquiry methods to answer scientific questions. |
| | important to know how the evidence wa collected and whethe it can be trusted. | | design and evaluate enquiries in order to maximise the trustworthiness of their data |

What to include Terminology relating to forces experienced in action: gravity, resistance, friction, buoyancy. What not to include The difference between mass and weight. Explanations of balanced and unbalanced forces, e.g. how aeroplanes stay in the air. Explanations about the speed at which objects fall. Arrow diagrams to repatoiabs aba aldiag cate, vmakv speea Rol in the Bod pir thin cate and france of the second state of the second secon