

NE00H Teaching for home learning: primary science

Example home learning sequence plan: Year 5 properties and changes of materials

This template is to aid thinking about the actions required of the teacher, support to be provided by parent/career and intended activity of the pupil during a learning sequence. This sequence may take place over a number of days. The first column is the same as the EEF Planning Framework available at <https://educationendowmentfoundation.org.uk/covid-19-resources/support-resources-for-schools/>, which aims to develop self-regulated learning and metacognition as part of a learning sequence.

Approach	Teacher	Parent	Pupil	Resources
Activate	Email plan for the week to parents, with instructions for activities, with concept map for children to complete on states of matter and changes of materials.	Ask children what the found difficult about the task. Return work to teacher.	Complete concept map	Weekly email Concept map

Explain	Check concept maps for prior knowledge and misconceptions. Record 5 minute demonstration and model how sand and pebbles could be separated and thought process involved. Address any misconceptions. Introduce the challenge activity.	Arrange for child to view video.	Watch video	Video explanation
Practise	Provide examples of different mixtures to separate based upon their properties. Use visual prompts to show the material, so children can think about the properties that it may have. Also provide methods of separation with images, so children have ideas to choose from. Provide further questions that ask children to choose without visual prompts and explain their reasoning.	Allow child to carry out activity themselves.	Independent work – separating mixtures challenge	Visual prompts of mixtures and separation methods, questions

Reflect		<p>Discuss with child afterwards:</p> <ul style="list-style-type: none"> • Why did they choose the methods they used? • what they found difficult, and why? • Which method do they think would have worked best, and why? 	Talk to parent/carer about their choices	
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Review	<p>Following week: provide a cartoon with a scenario that a naughty pixie has been and messed up a chef's kitchen. The resulting mixture of flour, peas, salt, raisins and cornflakes needs separating. Children need to say how they would separate it back to the original materials and why. Provide a reflection activity for children to evaluate their learning. Say two things that they think they have done well today and one thing that they wish to do more of/work on.</p>	Ensure access to resources.	Carry out activity. Answer to reflection activity	Cartoon scenario. Reflection activity
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