

## Year 5 Chemical Chaos Information Letter

### In Science:

- Distinguish features of solids, liquids and gases.
- Understand that dissolving, mixing and changes of state are reversible processes.
- Know that mixtures can be separated through the process of filtering, sieving and evaporating.
- Have a clear understanding that irreversible changes result in the formation of new materials.
- Learn how to present data in order to support investigations.

### In English:

- Use, understand and share a range of poetry.
- Learn how to identify language features of an explanation text.
- Write detailed explanations.
- Write riddles using scientific vocabulary.

### In Art:

- Artist study – David Hockney
- Experiment with continuing line and tone on a black and white picture.
- Explore cubist art and perspectives.
- Take photos of each other's faces from different perspectives.

After Professor Plutonium's unexpected visit, the challenge is set to create an interactive, informative and mind-blowing digital science fair to inform the population at large, of the wonders of reversible and irreversible states of matter. As budding scientists, they will investigate and test substances that can be recovered from mixtures and solutions, as well as discovering that some cannot. Children will take on roles and negotiate tasks as they work together to plan, investigate and present their scientific findings, including writing explanations for Professor Plutonium's own scientific journal. The project lasts 6 weeks and develops knowledge, skills and understanding in Science, English and ICT. Children will explore states of matter: solids, liquids and gases and how these can be mixed to form solutions and mixtures.

### In Geography:

- *describe how another region of the UK has changed over time.*
- *understand that change is continual.*
- *describe what their local area was like in the past.*
- *understand that their local area will continue to change.*
- *offer opinions on their local area at present and the changes underway.*
- *understand that the views of others can differ.*

### Project Vocabulary

*Please ensure your child learns these to encourage them to use them correctly in school.*

Gas	solution
solid	experiment
liquid	reversible
system	insoluble
filter	
separate	
mixture	
particles	
permeable	
substance	
funnel	
filter paper	

### Key information:

Home Learning: Professor Plutonium requires your home learning to be on his desk on or before **Monday 16<sup>th</sup> October**

Please see the attached Home Learning that has been written and explained to your child. We really value the support you show to your child with their home learning, in order for them to consolidate their collaboration and thinking skills. The Home Learning will be shared with the class and at the end of the project, as part of a Science fair.