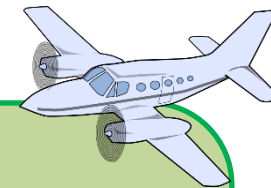


# Home Learning for 'Chemical Chaos'

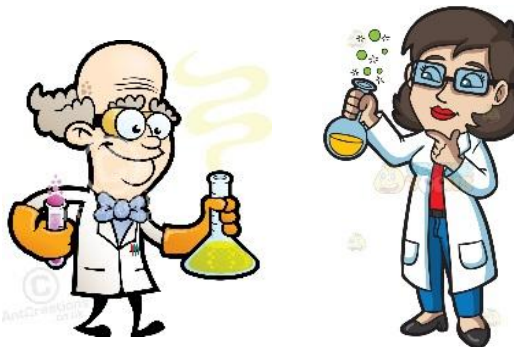


## HOME LEARNING MENU

*You are on your way to see Professor Plutonium, to thank him for setting a superb challenge, when the plane you are on crashes unexpectedly! All the water on board becomes contaminated as the plane plummets into the muddy earth and becomes beached.*

*As the only scientist on-board, you must support the rest of the crew. They need you to separate the mud from the water to help them stay alive. This will keep your crew hydrated long enough to repair the radio and get help.*

*You need to apply your understanding of scientific knowledge, skills and concepts to filter, separate and save lives - good luck Year 5!*



### As a scientist, you will:

1. Review your understanding of the principles of filtration and how this can be achieved;
2. Plan, with annotated diagrams, how you will set up your life-saving filtration system;
3. Conduct the test, detailing the process and results using photos and diagrams as evidence;
4. Evaluate the effectiveness of your filtration system;
5. Present your thinking, experiment and results, in report form, for Professor Plutonium and others.

### Enlist the help of an adult or friend to:

- Check your risk assessment;
- Discuss your experiment with and get them to ask questions to check your understanding;
- Share your findings with and receive feedback.
- Help you continue practising spellings learnt in class.

Home learning is due:

Monday 20th October  
2025

### Technical Language:

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

12.09.25