



Microscale metal displacement reactions

Education in Chemistry

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rsc.li/2OfpmtQ

Investigate the reaction of metals with metal compound solutions in this microscale practical, based on the Royal Society of Chemistry/Nuffield Foundation resource 'Displacement reactions between metals and salts' (rsc.li/315ufe2).

Use only a few drops of solutions and small pieces of the metal. If possible, put the solutions in dropper bottles as this will minimise the risk of cross-contamination. Students can use drop tiles or the integrated instructions (next page) printed and inserted into plastic wallets.

Provide sieves over jugs for students to tip their reaction mixtures into at the end of the practical.

1. Three to four drops
zinc nitrate
□□□□

2. Three to four drops
magnesium nitrate
□□□□

3. Three to four drops
copper nitrate
□□□□

4. Three to four drops
lead nitrate
□□□□

5. One piece zinc
□□□□

6. One piece magnesium
□□□□

7. One piece copper
□□□□

8. One piece lead
□□□□

9. Observe any
colour changes
□



