

Name _____

Class _____

*Which metals and acids react with each other?***Apparatus**

- Eye protection
- Test tube rack
- Measuring cylinder
- Test tubes
- Dilute acids
- Small pieces of metal



Wear eye protection.

Method

- 1 Measure 10 cm³ of an acid and put it into a test tube.
- 2 Drop a small piece of metal into the acid.
- 3 Look carefully at the test tube. What can you see happening?
- 4 Write what you see in the table. You may need to wait a few minutes to see if anything happens. If you cannot see anything happening, write 'no reaction'.
- 5 Wash out your test tube. Ask your teacher what to do with the piece of metal if it has not reacted.
- 6 Repeat steps 1 to 5 for the other combinations of metals and acids.

Recording your results

| Acid Metal | hydrochloric | sulphuric | nitric |
|---------------|--------------|-----------|--------|
| aluminium | | | |
| copper | | | |
| iron | | | |
| magnesium | | | |
| tin | | | |
| zinc | | | |

Considering your results/conclusion

I could tell that a particular combination of metal and acid had reacted because _____

The metal that reacted fastest with acid was _____

These metals did not react at all: _____

S observing, considering