

**RWE**

# The Role of Hydrogen in the Energy Transition



# Learning objective

Add your chosen Learning objective to this slide (see lesson plan)

## Vocabulary



Circuit



Electrolysis



Hydrogen



Comparative or fair test



Electricity



Solid



Oxygen



Irreversible



Conductor



Liquid



Metal



Renewable



Battery (cell)



Gas



Fuel



Greenhouse gas



Independent variable



Dependent variable



Control variables

# Odd one out



Which is the odd one out and WHY?



# RWE are planning to produce a lot of hydrogen!

We need to test some factors so we can advise them on ways to make their processes work most efficiently.

This is an electrolyser being delivered to a new hydrogen production factory in Lingen, Germany, for RWE. It will produce hydrogen that can be used as a clean fuel.



**What variables can we change to try to produce more hydrogen?**

Make a list.



# Planning a fair or comparative test

## IDEAS

Variables we could change:


Variables we could measure or observe:

--	--	--

## OUR METHOD

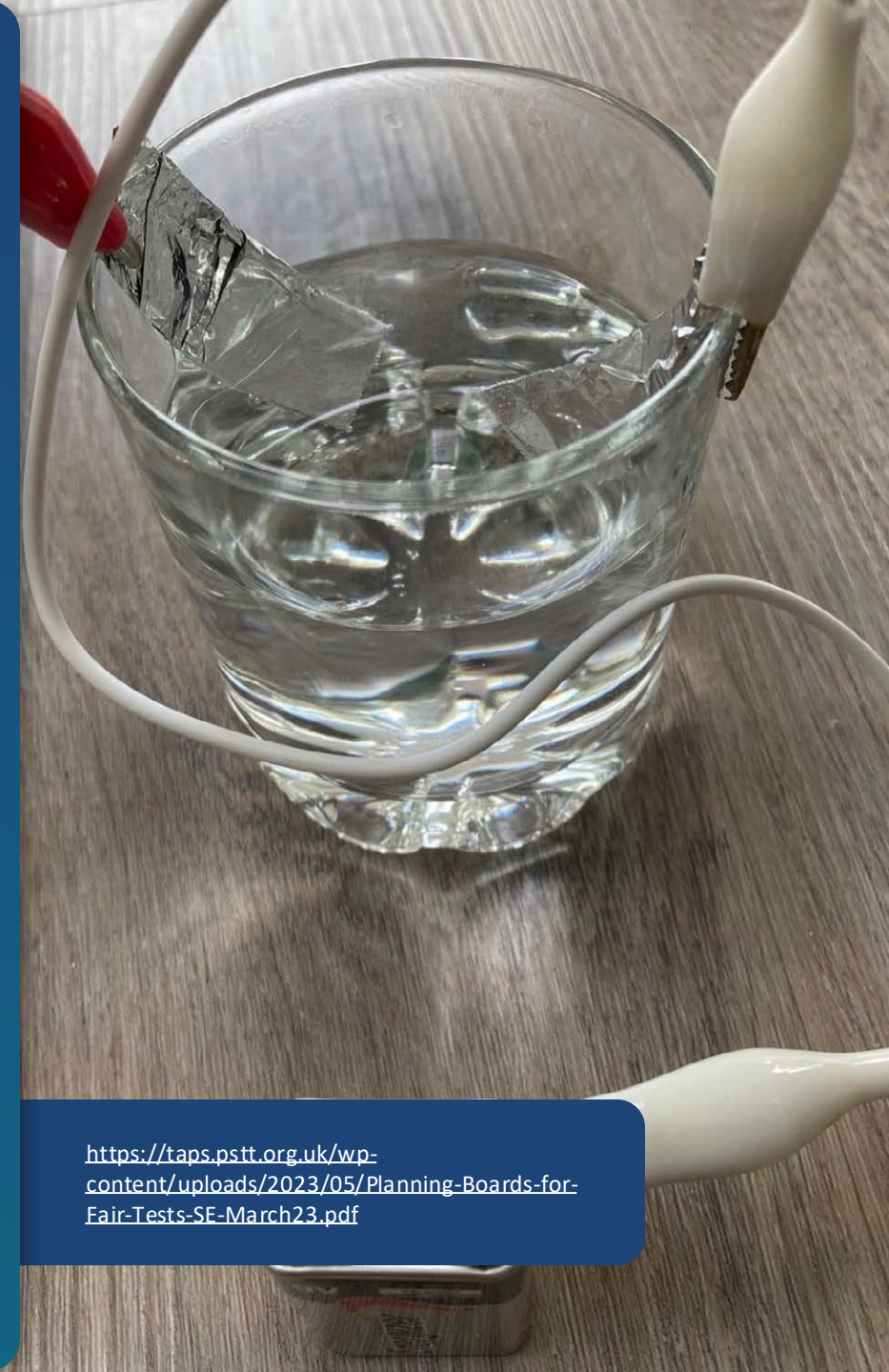
We will change:

--

We will measure  
Or observe:

--

We will keep these things the same:

<https://taps.pstt.org.uk/wp-content/uploads/2023/05/Planning-Boards-for-Fair-Tests-SE-March23.pdf>

# Deciding on a question

What do you predict will happen and why do you think that?

## OUR QUESTION

When we change



What will happen to



We predict ...

because ...

# Collecting data and drawing conclusions

## TABLE OF RESULTS



(what we changed)



(what we measured/observed)

Is it possible/useful to collect repeat readings?

## CONCLUSIONS

When we changed



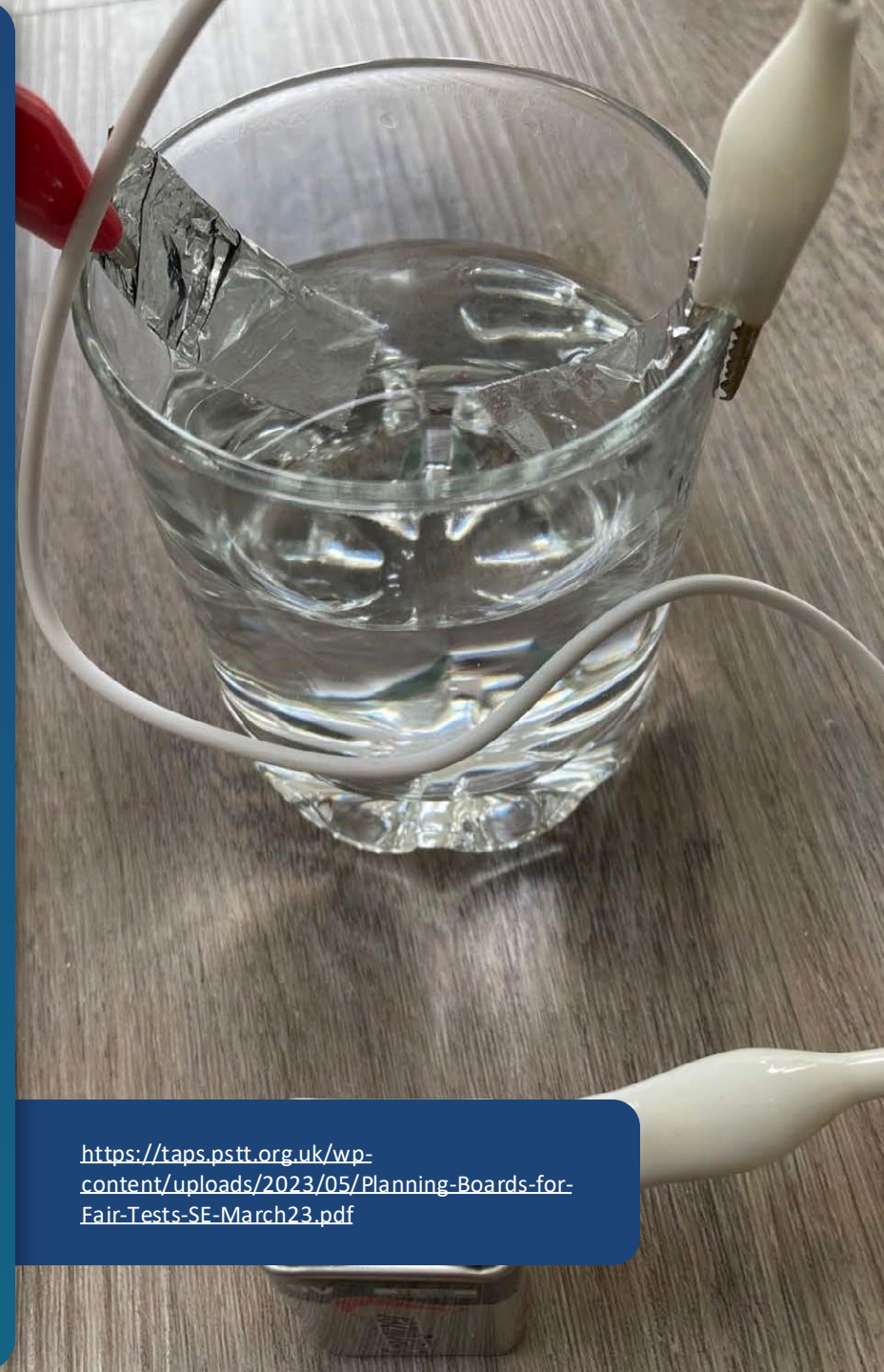
We found that



My evidence for this is ...

My scientific explanation for this is ...

I think this because ...



<https://taps.pstt.org.uk/wp-content/uploads/2023/05/Planning-Boards-for-Fair-Tests-SE-March23.pdf>



# Our Conclusions



Groups reports their conclusion to the rest of the class



How could you communicate what you have found out to RWE?



# Meet some of the RWE green hydrogen team

In this short video some of the team working to produce green hydrogen talk about their roles at RWE.

Click on the picture or the link below to watch the video  
(2 mins and 20 seconds)

[RWE personnel video on Vimeo](#)

