

## Grade 7 Natural Science Worksheet

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### Assessment Task: Water, hydrogen

#### Words and water

#### Question 1

Many words that we use in science, and even in everyday language, have their roots in the word 'hydrogen'. Use a dictionary and define these words and see how they are linked to the word 'hydrogen':

Hydrate

Hydrogenate/hydrogenation

Hydrocarbon

Hydrochloric acid

Hydroelectricity

Hydraulic

Hydrolysis

Hydrostatic

Hydrotropism

[18]

#### Question 2

Have some fun with words!

Does the word "hydrocheeksia" exist?

No it most certainly does not! But if it DID, what would it mean?

Hydrocheeksia – an illness where the person cries a lot and always has wet cheeks!

Now make up some of your own pretend words. Give logical definitions for your words. All your words must contain a reference to water.

[12]

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### Suggested Solutions

Possible marks	Solution
18	<p><b>Hydrate</b> – to add water to something (opp: dehydrate – to dry out).</p> <p><b>Hydrogenate/hydrogenation</b> – addition of a hydrogen atom to a molecule.</p> <p><b>Hydrocarbon</b> – organic compounds containing only carbon and hydrogen.</p> <p><b>Hydrochloric acid</b> – an acid made of hydrogen and chlorine, found naturally in your stomach.</p> <p><b>Hydroelectricity</b> – use of water to drives turbines to generate electricity.</p> <p><b>Hydraulic</b> – machines (e.g. jacks) that use water under pressure instead of cogs and levers.</p> <p><b>Hydrolysis</b> – break a compound apart by taking a water molecule away from the compound.</p> <p><b>Hydrostatic</b> – water under pressure creating a support structure.</p> <p><b>Hydrotropism</b> – plant growth towards water.</p> <p>2 marks per definition</p>
12	<p>Judge each learner’s words on merit. The point of this activity is to have fun, but also to reinforce the analysis of words with the stem “hydro”.</p> <p>6 words + 1 mark for definition.</p>