Design a futuristic train

My name is _____

My train is called _____

Don’t forget to label it’s features!

Useful Facts

Sustainable? What does that mean?

We use the term 'sustainable' to describe the way we use natural resources when this use is kept at a steady level that is not likely to damage the environment.

Examples of natural resources are:

- Air
- Water
- Wood
- Oil
- Natural gas
- Iron
- Coal

Earths precious resources are valuable and should not be wasted.

What is Renewable Energy?

Rather than burning coal, oil or natural gas, which will eventually run out, we do have some alternatives...

Sun, Wind, Waves, Geothermal Heat and Hydrogen!

We can use renewable technologies, such as wind turbines and solar panels, to generate electricity. These will not run out and are better for our planet.

Renewable energy resources release far less pollution than non-renewables, so avoid contributing further to climate change.

What is Non-renewable Energy?

We burn coal, oil and natural gas to generate energy. These non-renewable energy resources are still commonly used, but will eventually run out. Most importantly they produce lots of pollution as they are burnt which leads to climate change.

Green you say? No, not the colour!

But what does green energy mean?

It means clean energy that doesn't harm the Earth or give out harmful gases.
Remember Green energy means energy which is clean!

Green means clean!

Task: Match the words on the left to the descriptions on the right

Hydrogen Fuel Cell	Energy from a source that nature will not run out of like wind, water and sunshine.
Sustainable	Clean energy as it doesn't pollute the air or the water.
Green Energy	Hydrogen and oxygen are combined to produce electricity, heat, and water with no harmful gases being made.
Renewable Energy	Energy that is made from burning coal, oil and natural gas. These resources will eventually run out and produce lots of pollution as they are burnt.
Non-Renewable Energy	When chemicals and gases mix with the air and cause the Earth, Humans and Animals harm.
Air Pollution	Able to continue for a long time causing little or no damage to the environment.

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