**Eye spy** Aged 6-13: answers

**What does a wind turbine make?**

Wind turbines use wind to make electricity. It is better for our planet than some other ways of making electricity, as it doesn’t create pollution and wind is renewable, meaning it won’t run out.

Find out more about wind energy: [Fun Kids Radio fact file](https://www.funkidslive.com/learn/energy-sources/wind-energy-source-fact-file-2/)

**Highway engineers improve roads. What could you make better on the roads to help stop traffic jams?**

Traffic light systems that work well for the flow of traffic help, along with policing the laws, monitoring road conditions with CCTV, more buses and including cycle lanes.

Find out how to improve roads in cities: [BBC Bitesize](https://www.bbc.co.uk/bitesize/guides/zqdkkqt/revision/3)

**Why do you think metal is a good material for a bridge?**

Metal is strong, durable and weatherproof.

Find out what makes bridges so strong: [SciShow video](https://www.youtube.com/watch?v=oVOnRPefcno)

**What could we do in our homes and at school to help reduce how much cargo is moved around?**

Consuming less. This means only using what we need to be safe and comfortable. Buying items from our local area helps. Eating foods grown close to home and products that are in season means they aren’t shipped from across the globe. Learn where foods come from: [BBC Teach video](https://www.youtube.com/watch?v=9Opt06QF9WY)

**Where does river water come from and go to? Why?**

Water always comes from a source, usually up high in the mountain ranges. It then flows to reach either a lake, the sea, ocean, another river, or body of water.

The reason why is due to gravity – it flows downhill.

Find out all about rivers with this great resource: [BBC](https://www.bbc.co.uk/bitesize/topics/z849q6f/articles/z7w8pg8#:~:text=A%20river%20is%20a%20moving,ocean%20or%20even%20another%20river.)

**What happens to a seed underground? What does it need to grow?**

Germination! The seed takes in water from the soil around it and produces a shoot which begins to head up and look for the light. Learn more:[**BBC Bitesize**](https://www.bbc.co.uk/bitesize/clips/zb4rkqt)

**How could we power traffic lights in a more eco-friendly way?**

They can be powered using solar energy. Also, by collecting data on how many cars travel through from each direction and at what times, this means the lights can be programmed to stop traffic jams and reduce pollution. Google is even working on an [AI product for traffic lights](https://www.youtube.com/watch?v=r_VKftP6xq4) to do this in real-time!

**How can we store this energy to use it at night-time for festive lights?**

Solar energy from the cells can be stored in batteries to use at night-time.

Find out more with: [Fun Kids Radio](https://www.funkidslive.com/learn/curious-kate/curious-facts-solar-power/#:~:text=We%20can%20also%20store%20the,to%20use%20when%20it's%20dark.)

**Are you good at working in a team? See if your family can come up with ways you could use less electricity in your home this Christmas and share your ideas with us @IETeducation #SantaLovesSTEM**