

Driving question: How do we know if something is environmentally friendly?

STICKY KNOWLEDGE FOR SCIENCE

1. Magnets are made of materials that create a magnetic field (the area in space where the force of magnets can be detected).
2. Magnets have at least one north pole and one south pole.
3. Like magnetic poles (NN and SS) repel and opposite poles (NS and SN) attract one another
4. Not all metals are magnetic. Iron, nickel and cobalt are.
5. The Earth has a magnetic field which keeps us safe from many of the Sun's harmful particles.

STICKY KNOWLEDGE FOR GEOGRAPHY

1. Energy can be derived from either renewable or non-renewable sources
2. Renewable sources mean that the source of energy is constantly replenished
3. Non-renewable sources are not replenished
4. All non-renewable sources of energy are finite; at some point in the future they will run out
5. Non-renewable sources include fossil fuels
6. Fossil fuels are oil, coal, gas and were formed millions of years ago
7. Renewable sources of energy make use of the sun (solar), wind, water and heat - the UK is the windiest place in Europe
8. Renewable energy sources do not cause pollution
9. Wind turbines are built to harness the kinetic energy of the wind; when the wind blows the blades rotate a turbine connected to a generator which produces electricity. A group of wind turbines is called a wind farm.
10. Some people do not like wind turbines as they ruin the look of the landscape and can harm birds that might fly into them

ESSENTIAL VOCABULARY

depletion	The process of reducing reserves of a resource.	kinetic energy	A form of energy an object possesses due to its motion
turbine	A type of machine in which a wheel is driven by the movement of liquid or gas so that power is produced.	non-renewable energy	A natural resource that exists in finite amounts and cannot be replaced or replenished within a human lifespan.
energy	The power from something such as electricity or oil that can do work, such as providing light and heat.	attract	Any type of force that causes objects to come together.
sustainability	The ability to maintain or support a process over time.	repel	To force (something) to move away or apart.
renewable energy	Renewable forms of energy can be produced as quickly as they are used	solar energy	Light and heat harnessed directly from the sun.

MUSIC

Music Express:
Communication

RE

Judaism:
How do Jewish beliefs, teachings and stories impact on daily life?

PSHE

Scarf scheme:
Being my best

PE

- Golf
- Athletics

COMPUTING

Programming A:
Sequencing sounds.

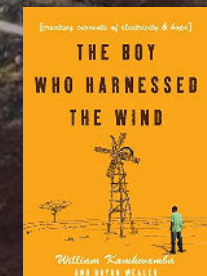
MATHS

- Mass and Capacity
- Fractions A

CORE TEXT

ART/DT

Textiles:
Fridge magnet (sew with a magnet inside)



HOOK

Magnet madness - investigate various magnets and materials

TRIPS / VISITORS

Wind Farm owner

APPLIED LEARNING

Debate: Are wind farms really that environmentally friendly?