

Foundation

15/06/2020



Subject	Topic	Task 1	Task 2	Task 3
Geography	Over the next few weeks we are going to be looking at energy and the environment. This week we will be looking at renewable energy .	slide 3	Slide 6	Slide 9
RE	Over the next few weeks we are going to be looking at worship. This week we will be looking at music .	Slide 4	Slide 7	Slide 10
Science	Over the next few weeks we are going to be looking at space. This week we will be looking at planets .	Slide 5	Slide 8	Slide 11

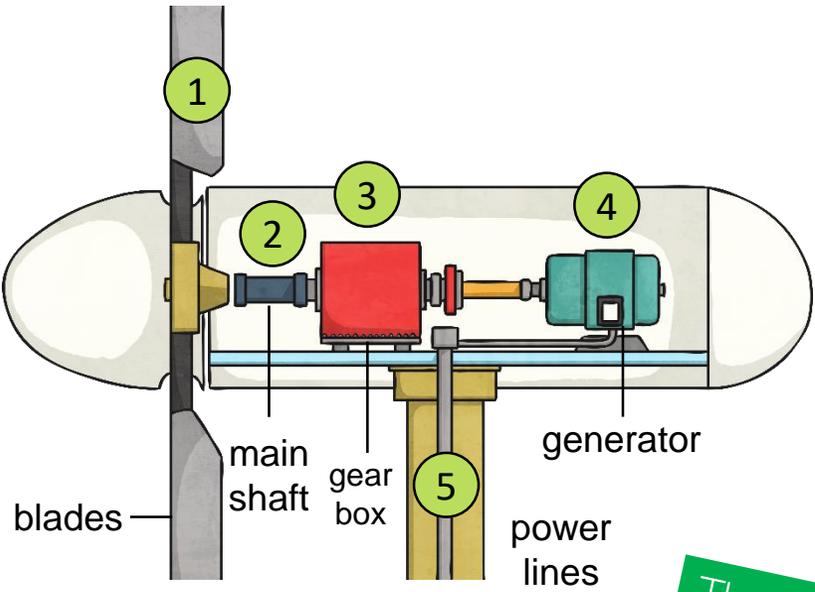
There will be three tasks for each subject to be completed weekly. Click on the buttons to above to complete each task. Don't forget to click on the "  " to go back to the home page to complete the next task.



Wind Power



1. What is renewable energy? Look up the definition and write it down
2. After looking at how wind power works below, read the statements and put them in a table like the one below.



1. When the wind blows, the blades turn.
2. The blades turn the main shaft which connects to the gear box.
3. The gear box increases the speed of rotation to around 1500 rpm (revolutions per minute).
4. The shaft turns a generator which generates electricity.
5. The electricity is carried along power lines in the tower.

Advantages	Disadvantages

The land occupied by a wind farm can still be used for farming.

They can only be built in certain areas.

Once the wind turbine is built, running costs are very low.

Wind farms are safe and easy to build.

Not everyone likes the appearance of wind farms.

Wind turbines must be shut down in very strong or very weak winds.

Wind is a renewable source so it will not run out.

It does not produce any CO₂.



1. Choose the words that you think are linked to being 'worthy':

special devotion	good	honourable	respected
appreciation	worthless	unworthy	admirable
praiseworthy	deserving	evil	undeserving
substandard	disrespect	excellent	trustworthy
valuable	worthwhile	divine	pleasing
invaluable	defective	precious	inadequate
insufficient	priceless	great	wonderful
respect	reverence	unsatisfactory	cherished
prized	treasured	dishonour	awe
glorify	exaltation	hate	honour
love	offering	praise	treasured

2. Can you imagine a world without music?

Music can be used to express or communicate emotion: happiness, fear, etc.

We don't all feel the same way when we hear a piece of music. Sometimes we are affected by our own experiences, where we are when we hear the music, our own beliefs and our own musical tastes.

On a piece of paper answer the following questions:

Are there any songs or pieces of music that you associate with certain times in your life?

Are there any pieces of music and/or songs you already link to worship or a certain religion?

- celebrations
- happy memories
- holidays
- favourite films
- times with friends or relatives



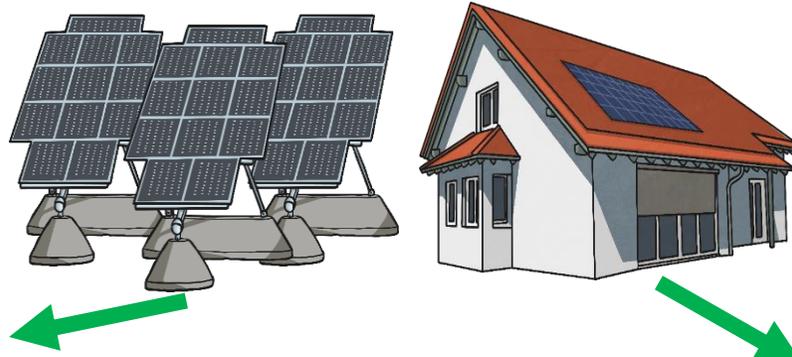
1. Can you name any planets in our solar system? Write down any facts you know about our solar system.

2. Time do some research!
Go and research about the planets in our solar system. Write down five interesting facts about each planet.



Solar Power

1. The Sun shines on solar panels, usually located on the roof of a building or in a field.
2. Photovoltaic cells (PV cells) inside the panels convert the Sun's energy into electrical energy.
3. The electricity can either be used or carried along power lines to the National Grid.



1. Some solar panels are used to provide heating.
2. The Sun shines on solar panels, usually located on the roof of a building.
3. Water inside the panels is heated.
4. The water is pumped around the heating system in the building.

Read the statements and put them in a table like the one below.

Advantages	Disadvantages

Energy is usually generated at or near to the location it will be used, reducing transmission costs.

It does not produce any CO₂.

The UK is not a very sunny country! Solar power works better in hot places, so its use is therefore limited.

Solar energy is renewable and the Sun's heat and light are free.

Solar energy can be used to generate electricity in remote places where other electricity supplies are hard to come by.

PV cells do not work so well when it is cloudy and do not work at night.

RE: Task 2



Islam:
 Music used for worship in Islam is very different to the music used in other religions. It includes the call to prayer and the reciting of the Qur'an and contains only a single voice. It is focused on rhythm, the shaping of words and variations of tone in the individual's voice, rather than using any instruments or a singing voice.

Hinduism:
 Hindu worship (puja) may be through words, music, silence and meditation. Indian classical music is part of worships well as kirtan (repetition of mantras to the accompaniment of musical instruments) and bhajan (devoting song). Kirtan means bhajari (devotional singing or hymns). Common instruments include drums, hand cymbals and harmonium. Hindu worship takes place in temples or as individual act in the home. It involves making offerings to the deity. Hindus will repeat mantras and the names of gods/goddesses and a bell is rung to let the god know that they have come to worship and to invite them into the home.

Judaism:
 Music is a key part of Jewish worship. In a synagogue, parts of the service are done standing (to praise) and parts are in a bowed position (showing respect). Most of the service is chanted or sung. The reading of the Torah is chanted and prayers are said to different tunes depending on the time of year. Some Jewish music uses instruments but in traditional communities, songs for Shabbat (the Sabbath) and other festivals are for voices alone as it is forbidden to play instruments at those times.

Buddhism:
 Buddhist worship shows respect and admiration but it is not focused on a god, making offerings or asking for favours. In other religions, these things are done as the worshipper feels their god will hear their praise, receive their offering and answer their prayers. In Mahayana tradition, worshippers sit barefoot on the floor, facing Buddha chanting. They will listen to monks chanting from religious texts and this is sometimes accompanied by instruments.

Christianity
 Music is an important part of Christian worship. Praise is mentioned in the Bible many times, where it is presented as joyful and free. Christian worship includes hymns, psalms, instruments, kneeling, dancing and the raising of hands. Christians believe that worship is an attitude of the heart and by singing together, they are worshipping God with one voice, church services often start with joyous praise. Singing is usually accomplished by instruments, dancing and clapping.

Sikhism:
 Music is an important part of Sikh worship. The Guru Granth Sahib (the holy book) contains hymns which praise God, reveal his nature and give guidance. These hymns are written without spaces so that they can't be altered. Many Sikhs memorise them as they are tricky to read. Several instruments accompany singing. The aim of Sikh worship is to give praise to God. Only sounds by the voice are allowed. Congregational worship at the Gurdwara is called diwaan.

1. Click on the images above to watch the videos on how different religions use music to worship.

2. Then read the different statements and fill out the table on a piece of paper

	Singing?	Chanting?	Instruments?	Notes
Islam				
Judaism				
Christianity				
Sikhism				
Hinduism				
Buddhism				



Click on the cards below. Look up the definition of each word and write them down:

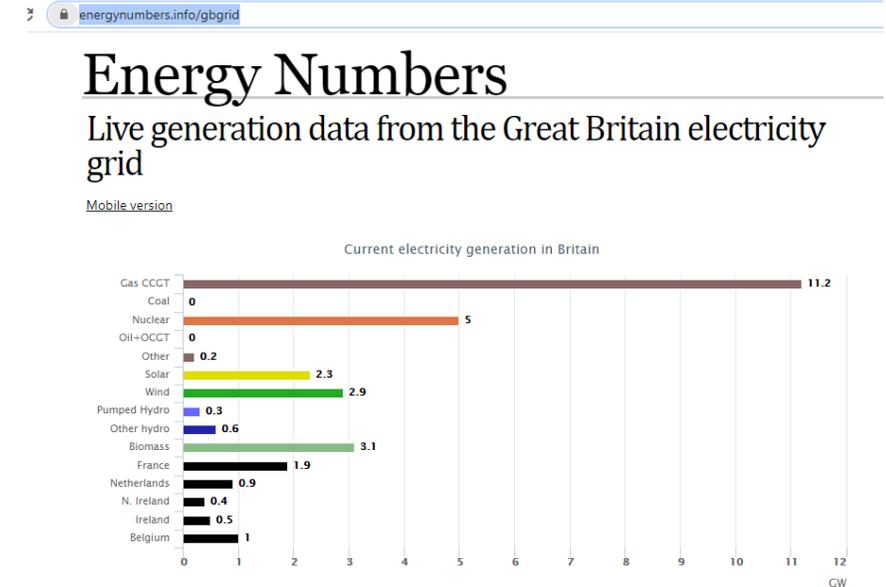


Biomass

Click on the image and watch a video on biomass. Is this a renewable source? How is this method similar to non-renewable methods.



Click on the image and look at real time generational data. How much electricity is being generated from renewables today? Can you work out what percentage this is of the total electricity being produced?





Now it's time for a quiz! Answer the questions on a piece of paper. How many questions did you get right? Don't cheat!

1. Judaism

2. Islam

3. Buddhism

4. Christianity

5. Hinduism

6. Sikhism



Click on the images below to listen songs on our solar system:



After watching the videos, you are going to write your own song on the solar system.
You need to include two different facts on each planet!