# **ELECTRICITY PRODUCTION - FOUR WAY REVISION EXERCISE**

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http://www.technologystudent.com/elec\_flsh/coal1.html http://www.technologystudent.com/enerflsh/COAL2.html http://www.technologystudent.com/enerflsh/coal3.html

COAL

### SOURCE

Coal is mined from deep underground, sometimes it is found relatively near the surface. Originates from plants, in swampy / tropical regions, that lived millions of years ago. As the plants died year after year, they began to be compacted through the pressure of other dead plant matter, rocks and debris. Due to hundreds of millions of years, of pressure and the earth's heat, peat and coal formed.

### **ELECTRICAL** PRODUCTION

At the electricity plant - coal is dropped into a hopper. The hopper feeds the furnace. As the coal burns, it heats a water tank creating high pressure steam. The steam is used to turn turbines. producing electricity.

### **ADVANTAGES**

The UK has 200 hundred years of coal reserves. which could be used to provide heating and electrical power. This would mean than there would be no need to import oil and gas. (Both oil and gas can be manufactured from coal).

The UK is currently reliant on imported oil and gas, a situation that could be reversed, if coal was used to produce our electricity.

### **DISADVANTAGES**

Burning coal to produce electricity produces CO2, which is linked to global warming. SO2 is also a pollutant, which results in acid rain, destroying forests and polluting rivers. Pollution is linked to a range of health issues. Nitrogen Oxide is another pollutant that causes health problems, in particular asthma and chronic bronchitis.

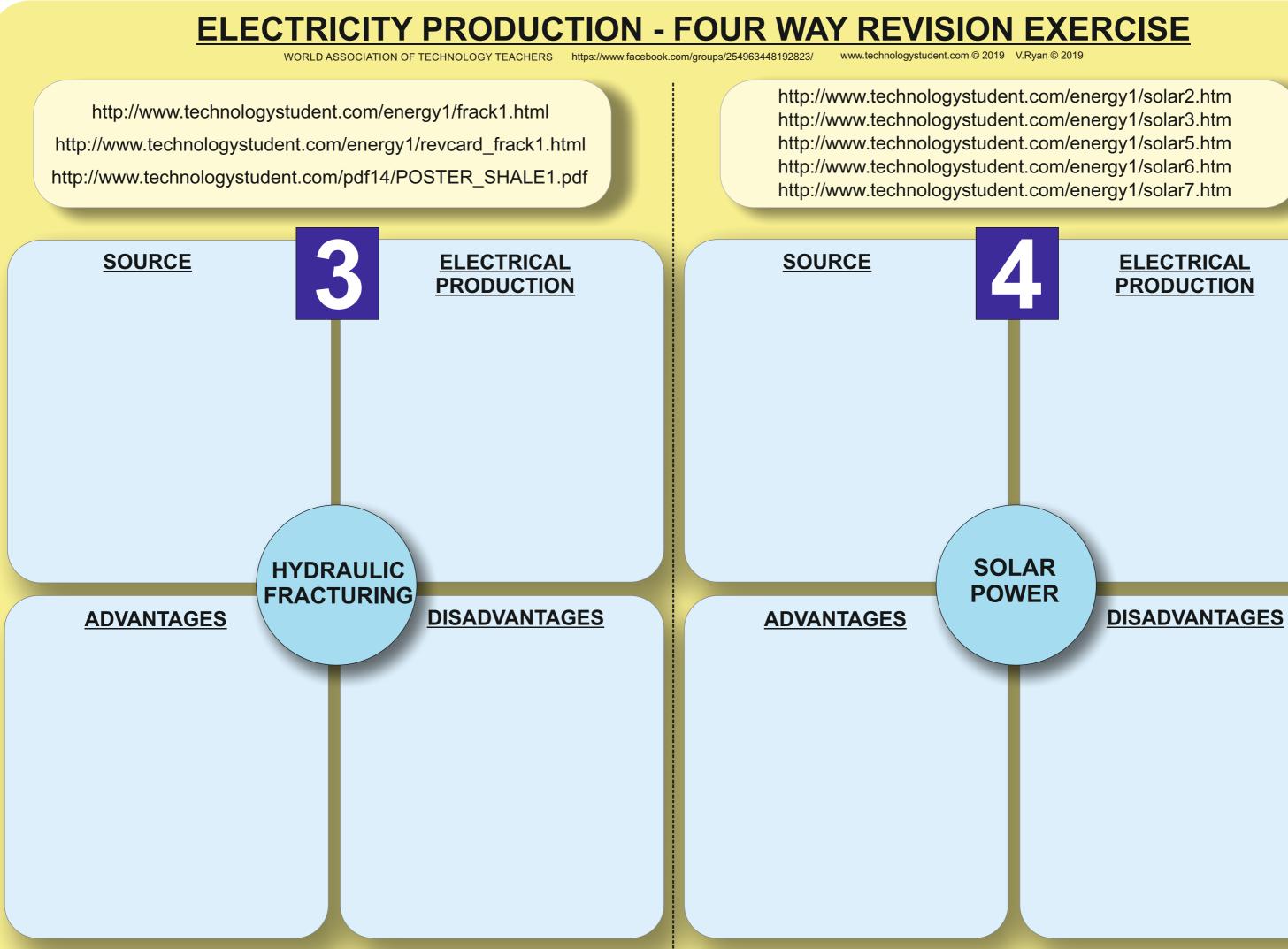
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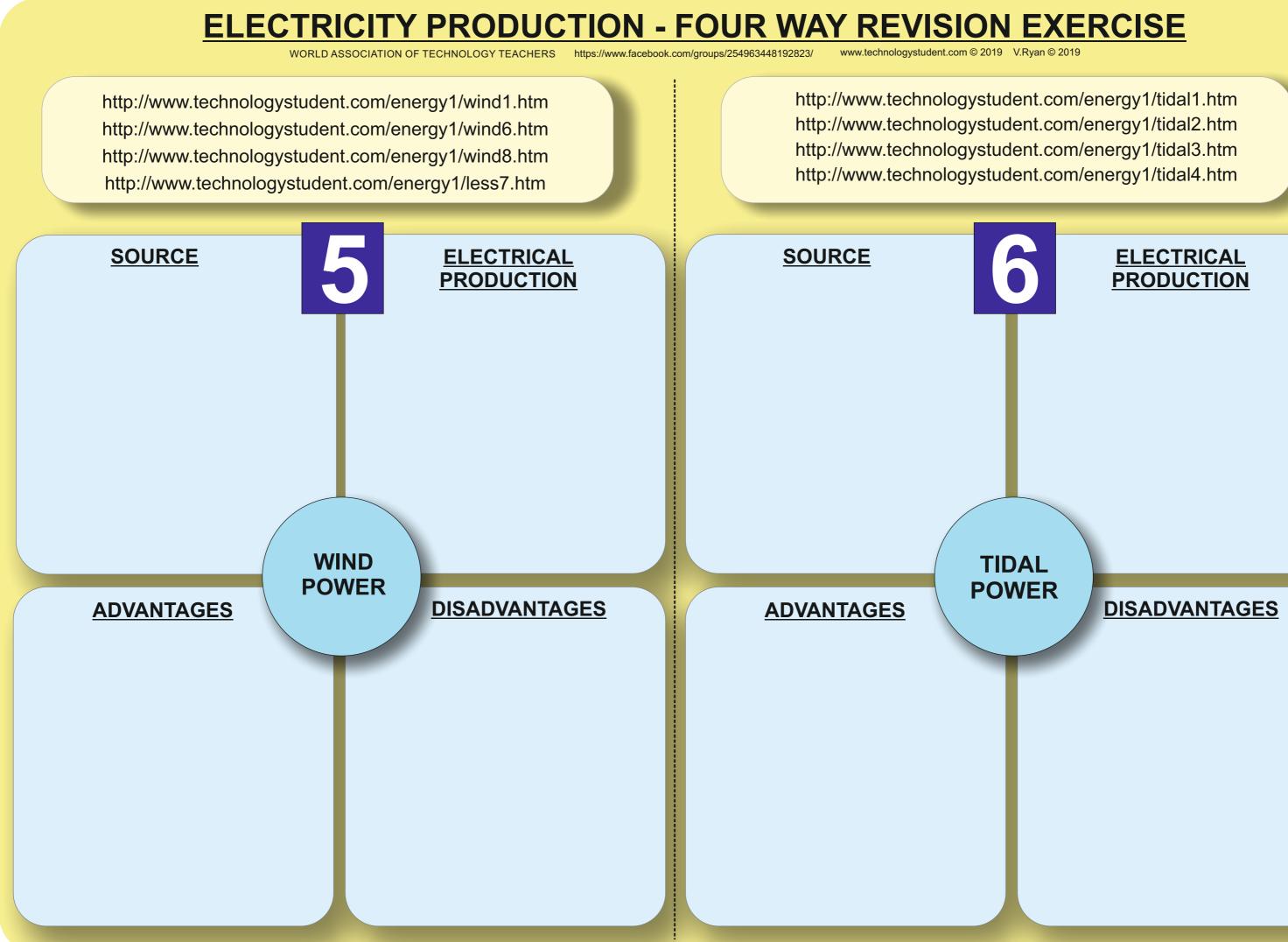


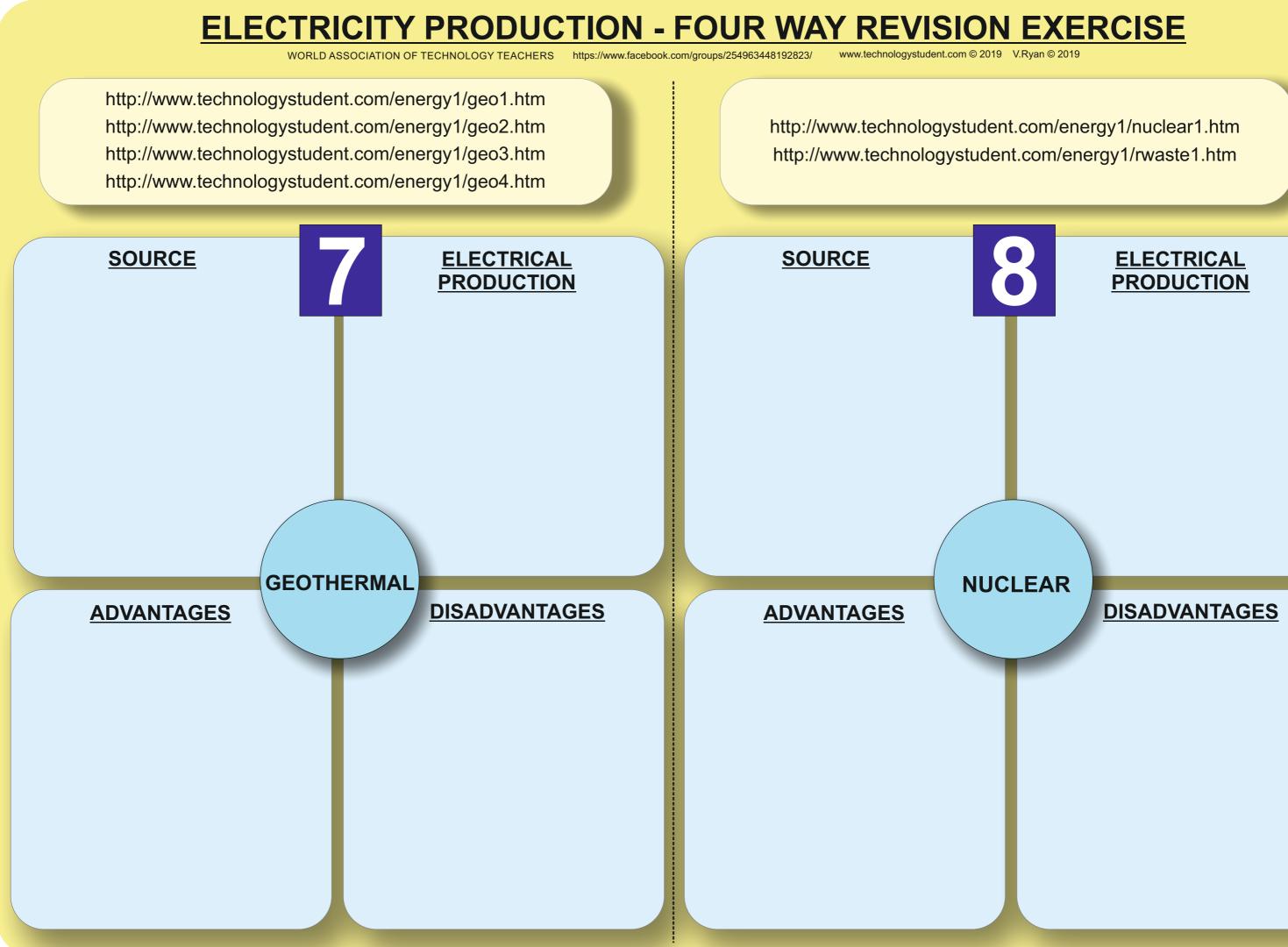
## **ELECTRICAL** PRODUCTION





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