

Combined science - Physics - Key stage 4 - Energy

# Renewable energy resources - worksheet

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# In lesson questions



# Independent practice

1. What are the three ways of generating electricity using water?  
– **H\_\_\_\_\_**, **T\_\_\_\_\_**, **W\_\_\_\_\_**
2. What advantage do these methods all have in common?
3. How does each of these methods generate their electricity?
4. State a disadvantage of wind power
5. State an advantage of wind power
6. What does 'renewable resource' mean?



# Independent practice

1. State two advantages of geothermal power
  - Two advantages are .....
2. Which type of location is best for geothermal power? **(Hint: What does thermal mean?)**
3. Why are biofuels considered renewable?
4. What are the problems associated with biofuels?
5. State an advantage of solar power.
6. State a disadvantage of solar power



# Answers



# Review

1. What are the three ways of generating electricity using water?  
**Hydroelectric, wave, tidal**
2. What advantage do these methods all have in common? **Renewable and zero emissions**
3. How does each of these methods generate their electricity? **By using water to drive a turbine**
4. State a disadvantage of wind power **visual pollution, noise pollution, unreliable**
5. State an advantage of wind power **zero emissions, renewable**
6. What does renewable resource mean? **Can be replenished in a timely manner**



# Review

1. State two advantages of geothermal power **renewable, no emissions**
2. Which type of location is best for geothermal power? **Where there are high temperatures near the surface, such as Iceland**
3. Why are biofuels considered renewable? **Because new crops can be grown quickly to replace the ones that have been used**
4. What are the problems associated with biofuels? **Uses up land for food and emits carbon dioxide on burning**
5. State an advantage of solar power. **Renewable, zero emissions**
6. State a disadvantage of solar power **inefficient, storage of generated electricity, unreliable**

