

Subject	Year	Term
Environmental Science	12	1
Topic		
The Hydrosphere		
Content (Intent)		
Prior Learning (Topic)		
<p><i>Water Cycle</i></p> <p><i>Water treatment process</i></p> <p><i>Potable water</i></p> <p><i>Reverse osmosis</i></p> <p><i>Distillation</i></p>		
Future Learning (Topic)		
<p>The impact of unsustainable exploitation</p> <p>Analysis and evaluation of strategies for sustainable management</p> <p>Ocean currents: the importance of thermohaline circulation in distributing heat and regulating climate</p> <p>Increasing sustainability by treating contaminated water</p> <p>Increasing sustainability by economical use and the exploitation of new sources</p>		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p>Note taking</p> <p>Practical: Obtain potable water from the school pond</p> <p>Construct water cycles</p> <p>Create flow diagrams for water treatment processes</p> <p>convert data and change the units used in transfer rates, volumes and residence times in the hydrological cycle</p> <p>calculate the mean rate of water transfer between two water reservoirs.</p> <p>interpret data relating to aquifer flow rates.</p> <p>analyse a scatter graph of per capita water use against mean GDP to suggest reasons for different rates of water use</p>	<p>- Homework Booklet marked and written feedback given</p> <p>Test marked, graded and feedback given</p>	
How can parents help at home?		
<p>Look at the topic specific resources on the VLE</p> <p>Use appropriate YouTube channels</p> <p>Encourage students to write revision cards</p>		

Look at the specification on the AQA website  
Complete past papers (on the AQA website)  
Take an interest! Ask your children what they have learnt and be curious about their learning.

### Helpful further reading/discussion

#### Reading

Environmental Science  
Chapter 4

#### Vocabulary Lists

**Per-capita**  
**Irrigation**  
**Industrialisation**  
**Abstraction**  
**Exploitation**  
**Aquifer**  
**Hydrology**  
**Incursion**  
**Subsidence**  
**Topography**  
**Sedimentation**  
**Flocculation**  
**Coagulation**  
**Fluoridation**

#### Careers Links

See VLE