Combined Science - Chemistry - Key Stage 4

C10 Using Resources

Required practical on potable water



Independent task – interpreting results

	pН	Mass of solids dissolved in 10 cm ³
Sea water	8.20	0.60 g
Tap water	7.70	0.01 g
River water	7.40	0.40 g

- 1. Which of the samples has an alkaline pH?
- 2. Which of the samples has a neutral pH?
- 3. Compare the mass of solids dissolved in 10 cm³ of the three samples.



Independent practise

Concentration (g/dm
3
) = amount of solute (g) x 1000 volume of solution (cm 3)

	Mass of solids dissolved in 10 cm ³
Sea water	0.60 g
Tap water	0.01 g
River water	0.40 g

- 1. What is the concentration of tap water?
- 2. What is the concentration of river water?



Independent task – recall questions

Answer the following questions:

- 1. What are the 3 ways in which pH can be measured?
- 2. Why is using a pH meter the best way to measure pH?
- 3. What pH range do alkalis have?
- 4. What is the state change called when a gas turns into a liquid?
- 5. Why is distillation not often used to produce potable water from sea water?
- 6. How do you calculate the concentration of dissolved solids in a water sample?

