3 eve annee Correction du contrôle Anglais
1º/ Title of the text - Acids and bases - (215)
2º/ The text main wear sumanizing. (2)

1. Four characteristics of acids are: sour taste, corrosive, change the colour of indicators (in the opposite way to bases), and produce hydrogen ions in solution. Four characteristics of bases are: soapy feel, caustic, change the colour of indicators (in the opposite way to acids), and produce hydroxide igns in solution.

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• 42. When it dissolves in water, a base raises the pH by reacting with the water to remove hydrogen ions; at the same time the concentration of hydroxide ions rises.

• 50.3. (i) The pH is 1. [In the text we are told that water has an H+ ion concentration of 10-7 moles per litre and a pH of 7; and that strong bases have an H+ ion concentration of 10-14 moles per litre and a pH of 14. By analogy, if the H+ ion concentration is 10-1 moles per litre, the pH must be 1]. (ii) The concentration of H+ ions in sea water is 10-8 moles per litre. [In the text, the pH of sea water is given as 8, so the concentration of H+ ions must be 10-8 moles per litre – by analogy from the examples in part (i). Also in the text, we are told that sea water has ten times less H+ ions than pure water; pure water has 10-7 moles of H+ ions per litre, and a tenth of 10-7 is 10-8].

(2) °6/ English tense used.

(a) present perfect

(b) Present perfect

(c) Present perfect