

Chapter 5 Review

- 1a) pH 7 (neutral)
- b) pH 8-14 (basic)
- c) pH 1-6 (acidic)

4) 10 times stronger acid

5) red litmus $\rightarrow$ red (acid or neutral)
 $\rightarrow$ blue (basic)

blue litmus $\rightarrow$ red (acid)
 $\rightarrow$ blue (neutral or basic)

6a) acid - starts with "H"

b) base - ends with "OH"

10) neutralization combining an acid + base to get a salt + water

16) pH 11 $\xleftrightarrow{\times 10}$ pH 10 $\xleftrightarrow{\times 10}$ pH 9 $10 \times 10 = 100$ times stronger

- 17a) blue
- b) yellow
- c) pink
- d) colourless
- e) blue

- 21a) HCl - acid
- b) KOH - base
- c) $\text{Sr}(\text{OH})_2$ - base
- d) MgCl_2 - salt
- e) K_3PO_4 - salt
- f) H_2SO_4 - acid