

Practice: Acids and Bases Answer Key

1. For each of the following, state if it an acid or a base.

- a) Pepsi Cola **acid**
- b) Draino drain cleaner **base**
- c) Baking powder **base**
- d) Orange juice **acid**
- e) Pepto Bismol stomach antacid **base**
- f) Vinegar **acid**

2. For each of the following chemical formulas, give the name of the acid or base.

- a) H_2SO_4 **sulfuric acid**
- b) NH_4OH **ammonium hydroxide**
- c) $\text{Ca}(\text{OH})_2$ **calcium hydroxide**
- d) HCl **hydrochloric acid**
- e) HNO_3 **nitric acid**
- f) NaOH **sodium hydroxide**

3. How do acids taste, and how do bases taste? **Acids: sour, Bases: bitter**

4. What colour does litmus paper have when it is dipped in an acid and in a base?

Litmus paper in acid turns red.

In a base it is blue.

5. What indicator is yellow in an acid, and blue in a base?

Bromothymol blue.

6. Write a balanced chemical equation for the neutralization of potassium hydroxide and nitric acid.



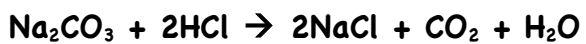
7. Will an electrical current pass through a base and an acid?

Yes it will.

8. When zinc is dropped into hydrochloric acid, write a balanced chemical equation for the reaction.



9. 8. When sodium carbonate is dropped into hydrochloric acid, write a balanced chemical equation for the reaction.



10. If you were to feel a base, how would it feel?

It would feel slippery.