



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 10-12 COURSE NAME: Chemistry
MEASUREMENT TOPIC: Explain Acidic & Basic Solutions

4	In addition to Score 3, the student makes in-depth inferences and applications.
3	The student can: <ul style="list-style-type: none">• Construct explanations about acidic & basic solutions properties using<ul style="list-style-type: none">• mathematical models• molecular models• Plan and carry out a strong acid & base titration.
2	The student can: <ul style="list-style-type: none">• Use models to predict relative properties of acids & bases.• Calculate pH, pOH, $[\text{OH}^-]$, $[\text{H}_3\text{O}^+]$ of common acids & bases.• Use molecular models to derive chemical formulas & names of acids & bases.
1	With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: Arrhenius Theory, Brønsted-Lowry theory, Lewis theory, Endpoint, Equivalence point, Analyte, Titrant, Amphoteric and Buffer