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Unit 1

Atomic Structure and Properties

Unit 1

Unit 2

Compound Structure and Properties

Unit 2

Unit 3

Properties of Substances and Mixtures

Unit 3

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Chemical Reactions

Unit 4

Unit 5

Kinetics

Unit 5

Unit 6

Thermochemistry

Unit 6

Unit 7

Equilibrium

Unit 7

Unit 8

Acids and Bases

Unit 8

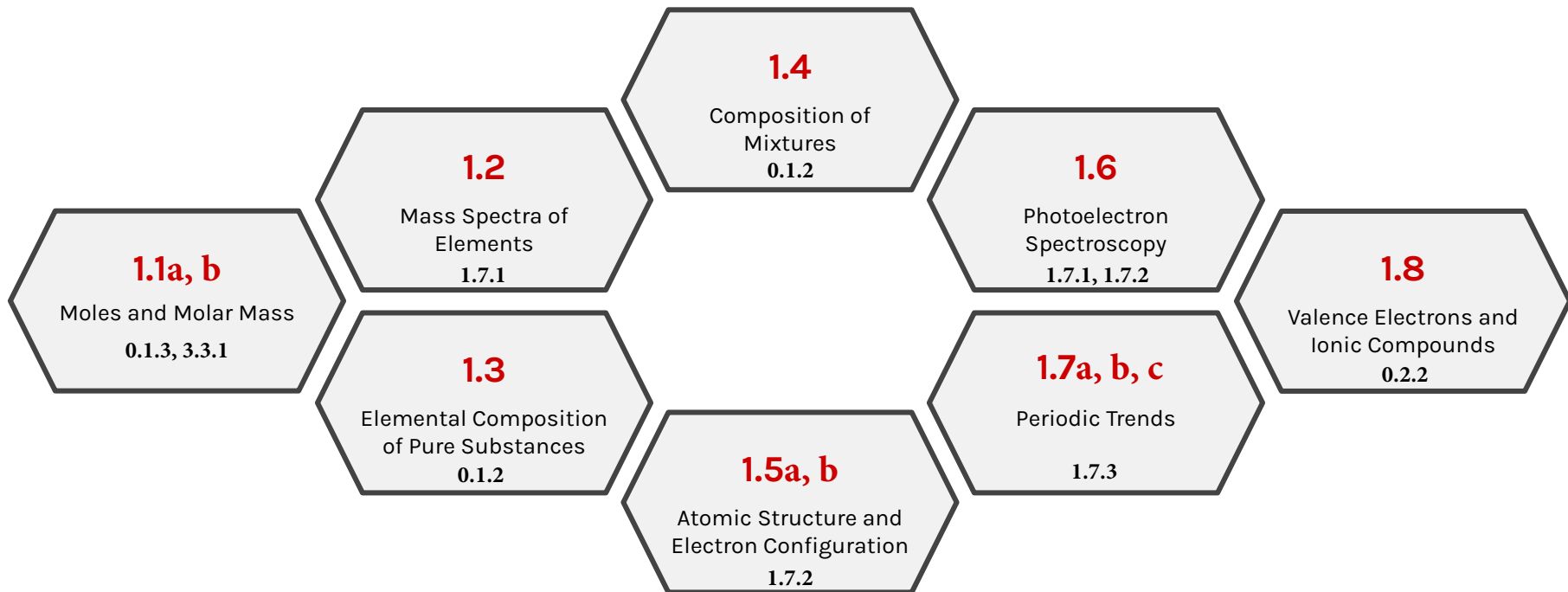
Unit 9

Thermodynamics and Electrochemistry

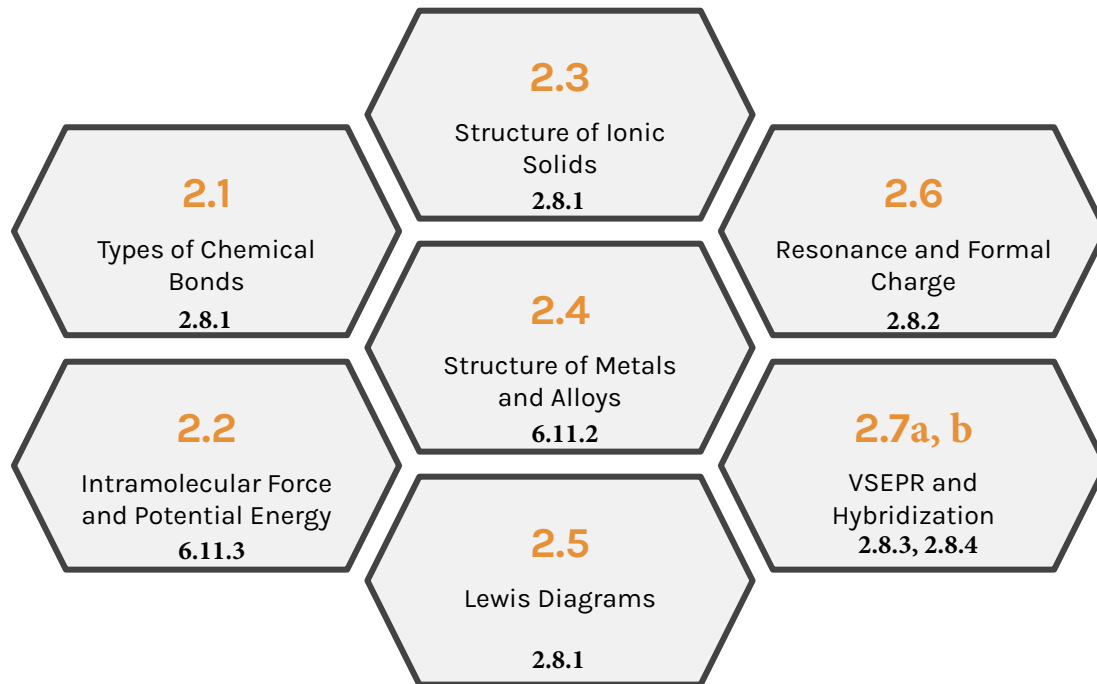
Unit 9

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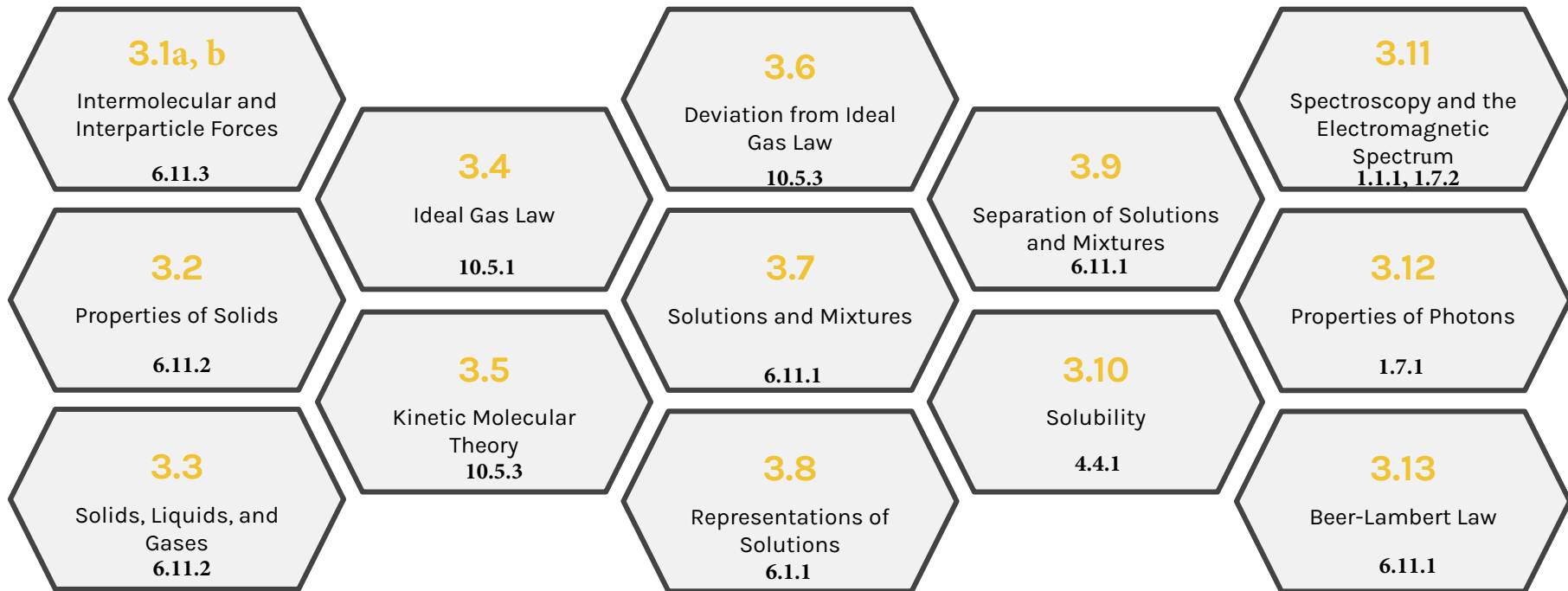
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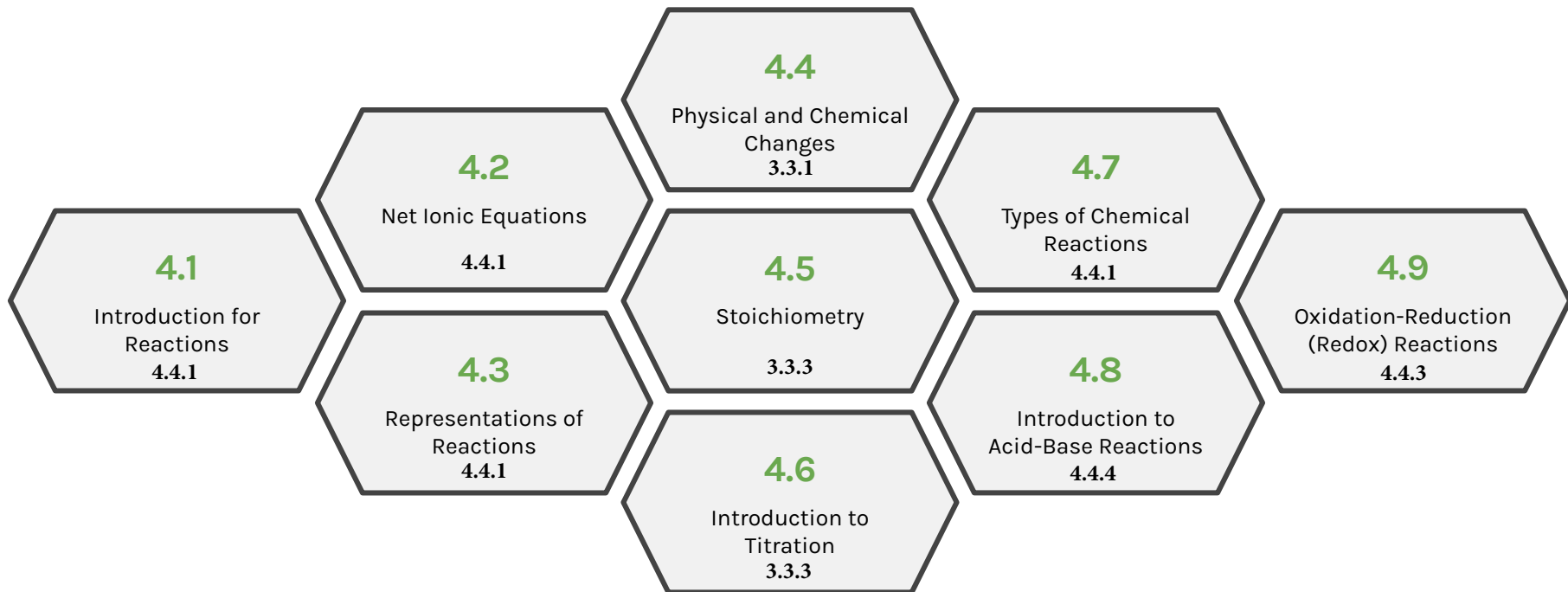
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5.1

Reaction Rates

13.12.1

5.2

Introduction to Rate
Law
13.12.1

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Concentration Changes
Over Time
13.12.1

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Elementary Reactions
13.12.1

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Collision Model

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Reaction Energy Profile
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13.12.2

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Reaction Mechanism
and Rate Law
13.12.2

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Pre-Equilibrium
Approximation
13.12.4

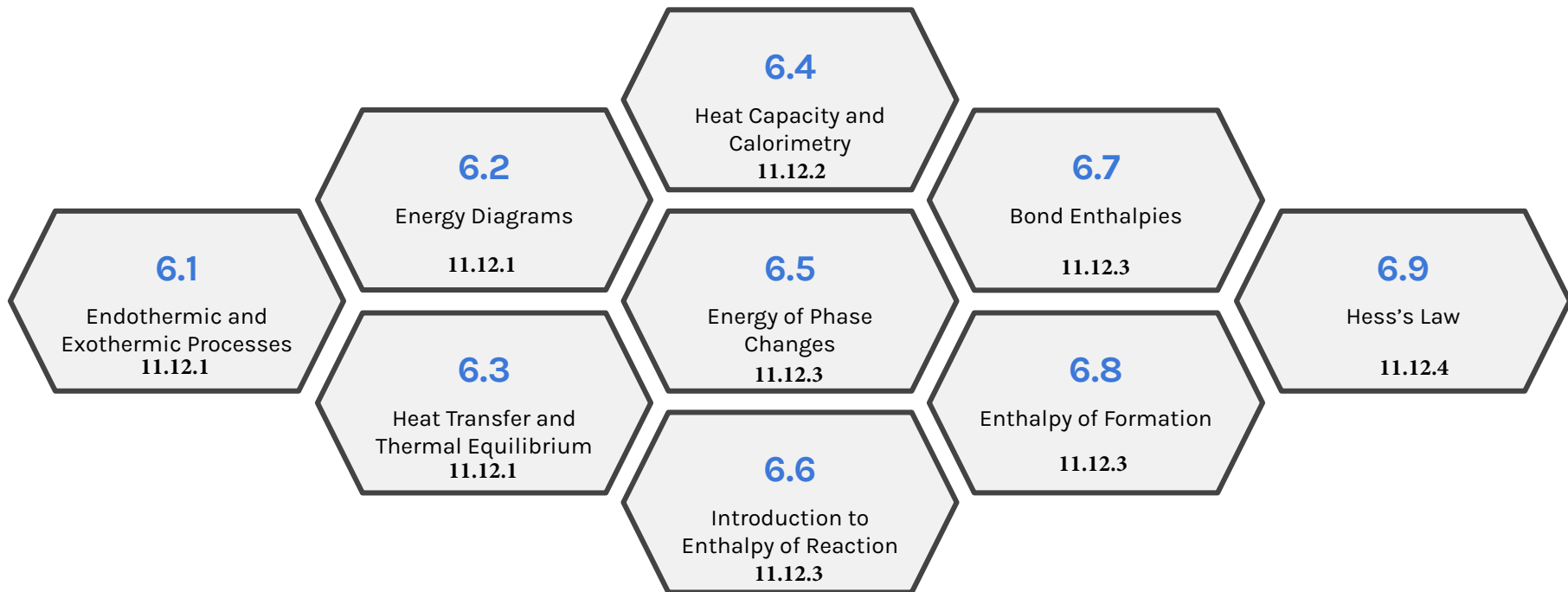
5.10

Multistep Reaction
Energy Profile
13.12.4

5.11

Catalysis
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7-9% Exam Weighting



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7.1Introduction to
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7.13.1**7.2**Direction of Reversible
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7.13.1**7.3**Reaction Quotient and
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7.13.2**7.9**Introduction to Le
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7.13.3**7.10**Reaction Quotient and
Le Châtelier's Principle
7.13.2**7.11**Introduction to
Solubility Equilibria
7.13.3**7.12**Common-Ion Effect
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8.1Introduction to Acids
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Equilibria**9.15.4****8.4**Acid-Base Reactions
and Buffers**9.15.4****8.5**

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9.6Free Energy of
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9.10Cell Potential Under
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9.11Electrolysis and
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