

# Unit 3 — Boolean Expressions and if Statements

**Big Idea:** CON (Control) | **Code.org unit:** Unit 3 | **Teacher:** \_\_\_\_\_ **Period:** \_\_\_\_\_

Your one-page map of everything graded in Unit 3: point values, weights, and the AP objective each item builds toward. Use it alongside the answer keys (folder 02) and the feedback bank (folder 05).

## 1 · Graded items and point values

Graded item	Points	Category	AP objective
Boolean expression evaluation	15	Practice	CON-1.D
if / else-if tracing & writing	20	Practice	CON-2.A
De Morgan & simplification	10	Practice	CON-1.F
Unit 3 quiz (25 Q)	25	Assessment	all CON
Handwritten conditional-logic FRQ <b>AI-PROOF</b>	20	Performance	CON-2.A
<b>Unit total</b>	<b>90</b>		

**AI-proofing:** items marked **AI-PROOF** are the handwritten, in-class replacements (folder 03) you assign when a student's digital work trips the AI red-flags. Same AP objective, no shortcut.

## 2 · Suggested category weights (gradebook)

Category	Weight
Practice (formative)	35%
Assessment	40%
Performance task	25%

These weights are pre-loaded in the gradebook CSV (folder 04). Change one cell and every grade recalculates.

### 3 · AP learning-objective coverage (put this on the wall)

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Track per class. If the class average on any objective is below 70%, re-teach it *before* the AP exam.

Objective	Students must be able to...
CON-1.D	Evaluate relational (<, >, ==, !=) and logical (&&,   , !) operators.
CON-2.A	Write if, if/else, and if/else-if statements.
CON-1.F	Apply De Morgan's laws to simplify Boolean expressions.
CON-2.D	Compare objects with .equals() vs == correctly.
CON-1.G	Understand short-circuit evaluation of && and   .

### 4 · Grading order that saves time

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1. **Quiz/assessment first** — objective, tells you instantly where the class stands.
2. **Skills work by station** — grade one item across the whole stack, then the next. 2–3× faster.
3. **Performance task last**, with the interactive grader (folder 06) open — click criteria, paste feedback.