

# Conditionals & Functions — By Hand

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

AP objective: AAP-2.E/2.H Points: 30

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**Why handwritten, in class:** this replaces a typed task AI can complete. Work every item by hand and **show all your steps** — no AI, phones, or notes. A correct answer with no work earns half credit; the work is what proves it's yours.

## Complete each item by hand — show all work

1. Trace this code for  $x = 3$ ,  $x = 10$ , and  $x = 15$  (show the comparison result each time) — 10 pts

GIVEN

```
if (x > 10) {  
  console.log("big");  
} else if (x > 5) {  
  console.log("medium");  
} else {  
  console.log("small");  
}
```

2. Write a function `timesTwo(n)` that returns `n` multiplied by 2, then call it twice — 10 pts

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3. Explain in your own words how your function uses abstraction — 6 pts

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4. This should print "pass" when score is 60 or above. Find and fix the bug (circle it) — 4 pts

GIVEN

```
if (score > 60) {  
  console.log("pass");  
}
```

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## Oral defense (teacher — 60 sec)

Student answers one cold question aloud before grading. A student who did their own work can answer instantly; a copied one can't.  Strong  OK  Weak

## Scoring (30 pts)

Criterion	Pts	Earned
Trace correct + Booleans shown	10	
Function written & called	10	
Abstraction explained	6	
Bug found & fixed	4	
<i>Gate</i> : passed oral defense (can explain the work aloud)	req'd	<input type="radio"/> Y <input type="radio"/> N
Total	30	

**Integrity gate:** if the student can't explain their work aloud, cap the score at 50% and require a resubmit.