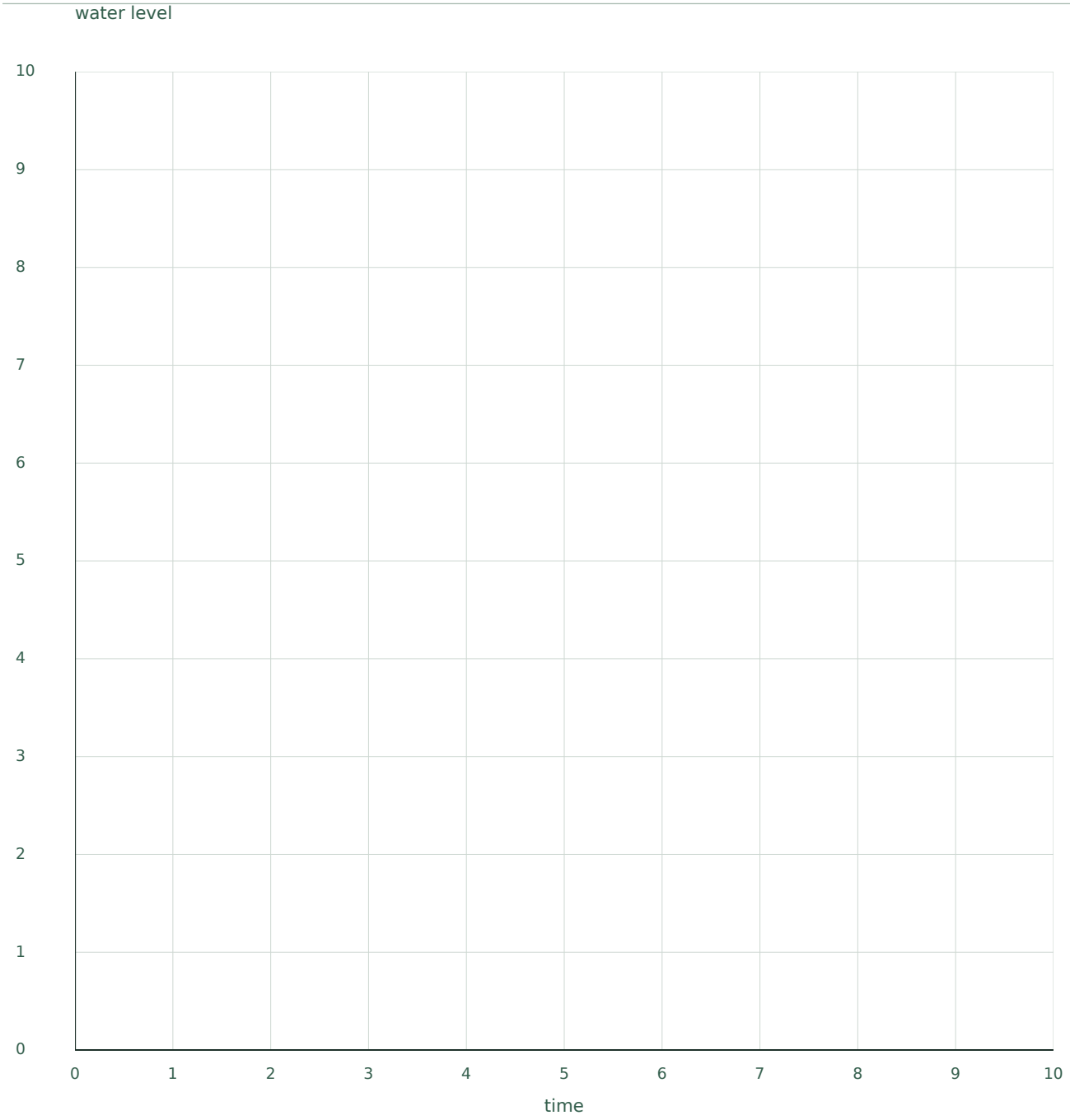
Qualitative Graphs:: Sketching Rise, Fall,:

and Plateau Stories:

Qualitative Graphs Worksheet: Sketching Rise, Fall, and Plateau Stories

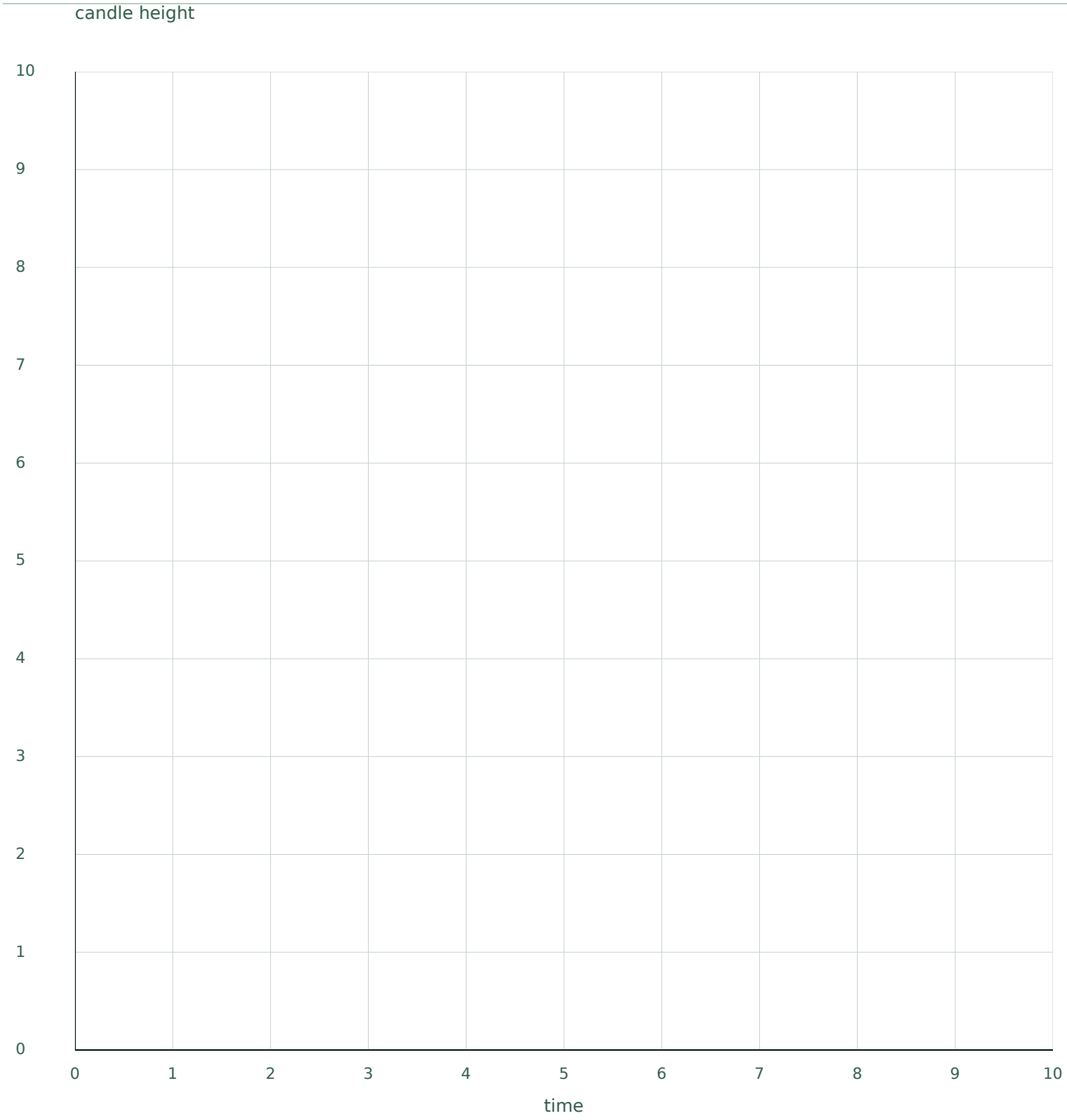
Exercise 1: Bathtub (blank axes)



Student sketch space. Label axes, mark segment boundaries, and write one sentence per segment.

Qualitative Graphs Worksheet: Sketching Rise, Fall, and Plateau Stories

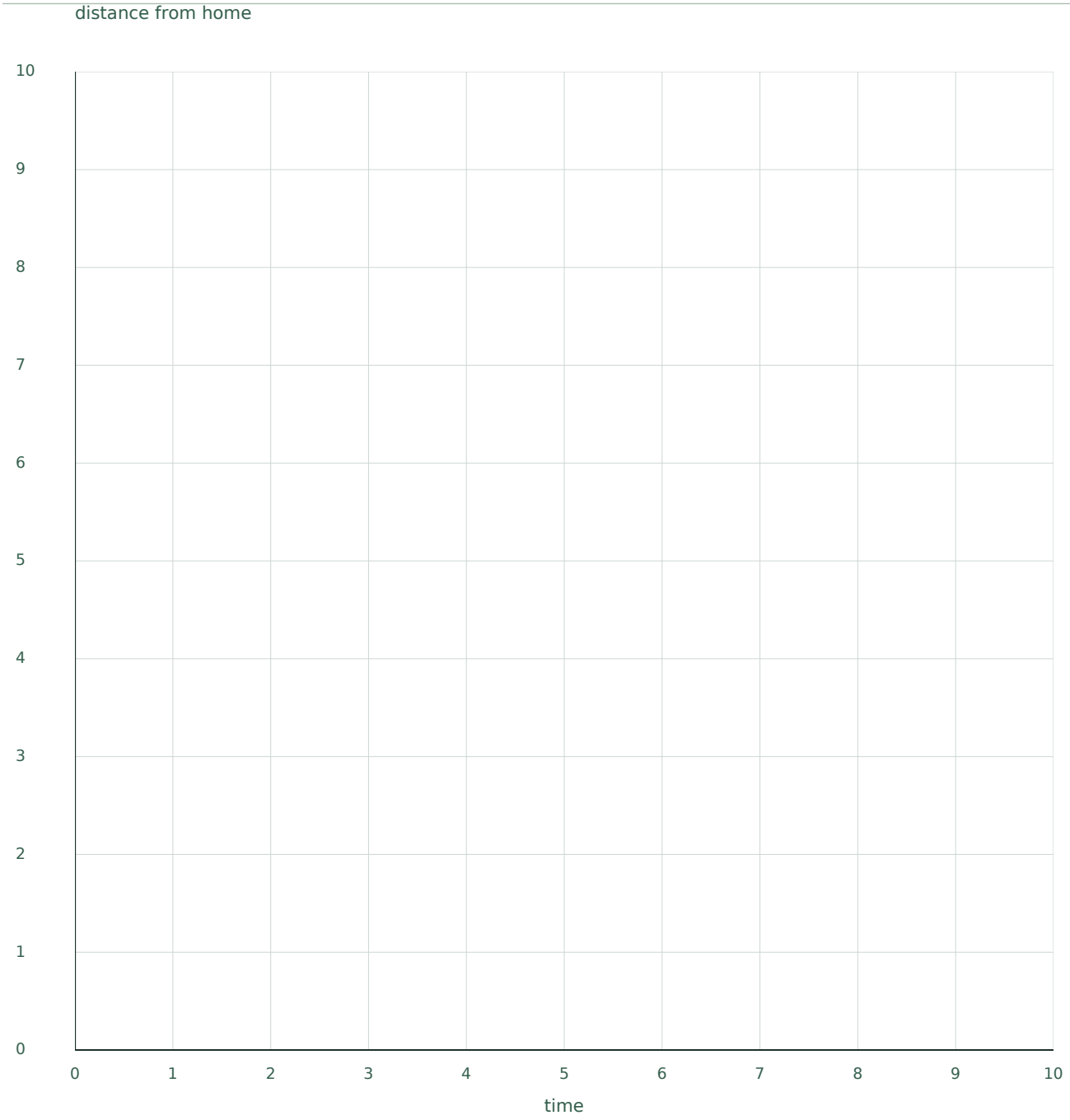
Exercise 2: Candle (blank axes)



Student sketch space. Label axes, mark segment boundaries, and write one sentence per segment.

Qualitative Graphs Worksheet: Sketching Rise, Fall, and Plateau Stories

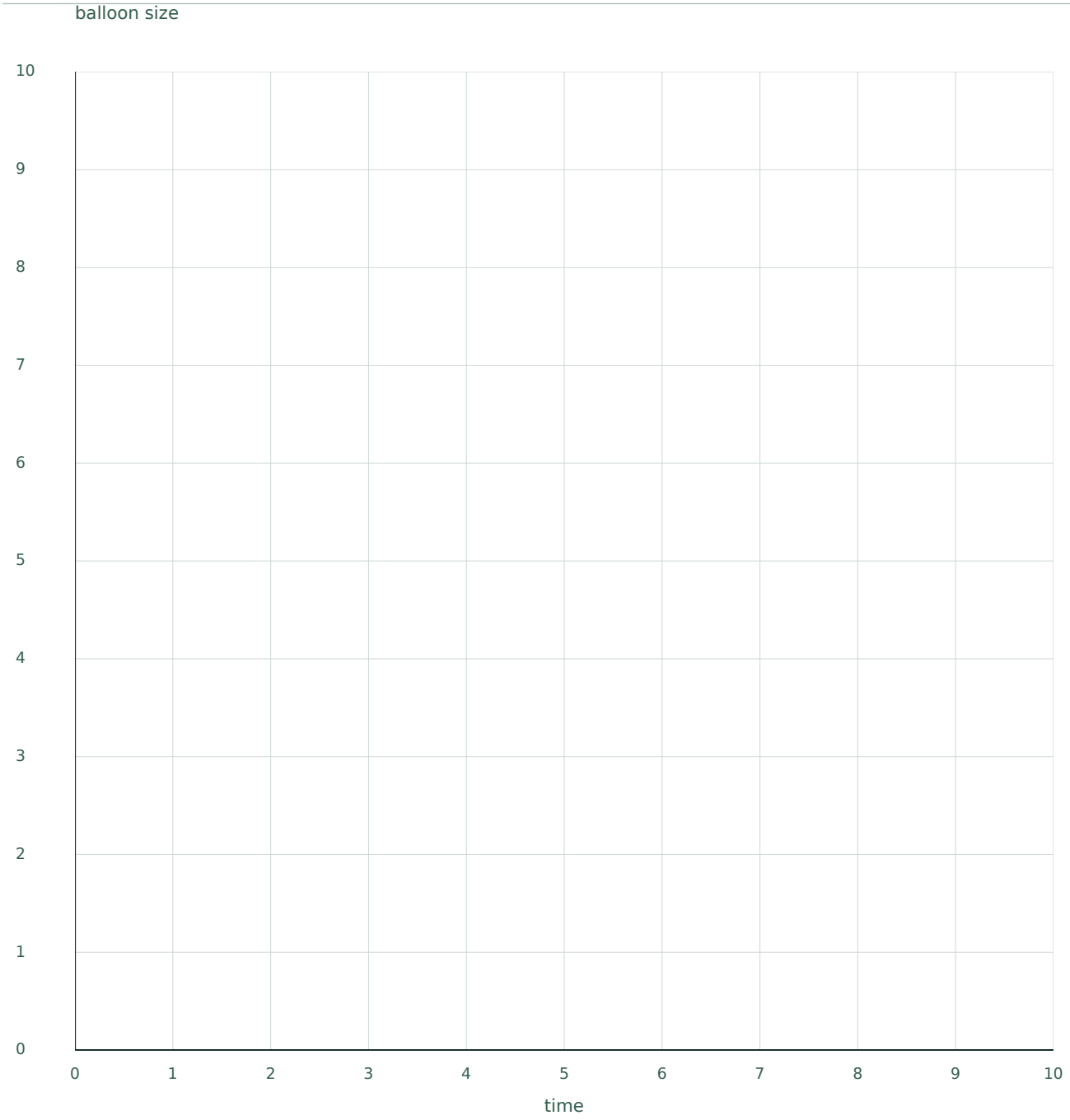
Exercise 3: Walking (blank axes)



Student sketch space. Label axes, mark segment boundaries, and write one sentence per segment.

Qualitative Graphs Worksheet: Sketching Rise, Fall, and Plateau Stories

Exercise 4: Balloon (blank axes)



Student sketch space. Label axes, mark segment boundaries, and write one sentence per segment.

Qualitative Graphs Worksheet: Sketching Rise, Fall, and Plateau Stories

Interpretation Sentences

Response space for one interpretation sentence per segment for each exercise.

Qualitative Graphs Worksheet: Sketching Rise, Fall, and Plateau Stories

Original tasks 1, 2, 3 / blank responses

Task 1

A bathtub is empty. The tap is turned on and the water level rises steadily. After a few minutes, the tap is turned off and the water level stays the same. Then the drain is opened and the water level falls until the tub is empty. Sketch a qualitative graph with time on the horizontal axis and water level on the vertical axis. Write one sentence for each segment.

Task 2

A candle is lit. Its height stays the same for a short time, then it burns down quickly, then it burns down more slowly. Sketch a qualitative graph with time on the horizontal axis and candle height on the vertical axis. Write one sentence for each segment.

Task 3

A person walks away from home at a steady pace, stops to rest, then walks back home faster than before. Sketch a qualitative graph with time on the horizontal axis and distance from home on the vertical axis. Write one sentence for each segment.

Qualitative Graphs Worksheet: Sketching Rise, Fall, and Plateau Stories

Original tasks 4 / blank responses

Task 4

A balloon is inflated quickly, then air is let out slowly, then it is inflated again more slowly than the first time. Sketch a qualitative graph with time on the horizontal axis and balloon size on the vertical axis. Write one sentence for each segment.