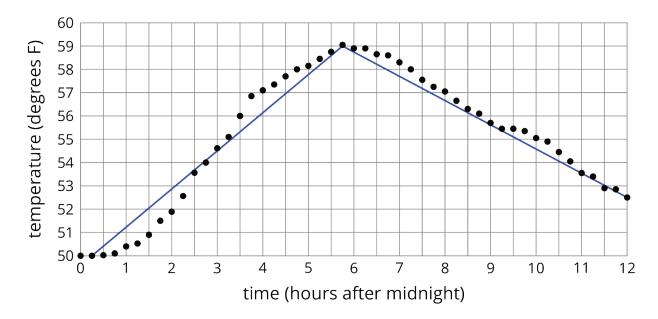
## **Unit 5 Lesson 10: Piecewise Linear Functions**

## 1 Notice and Wonder: Lines on Dots (Warm up)

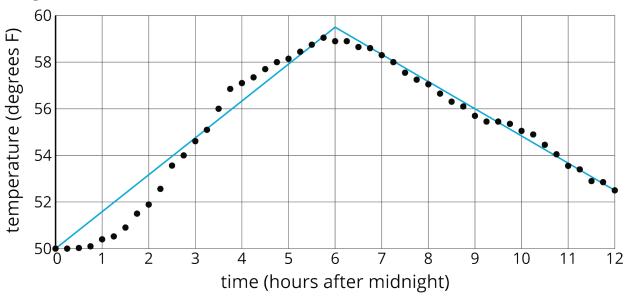
#### **Student Task Statement**

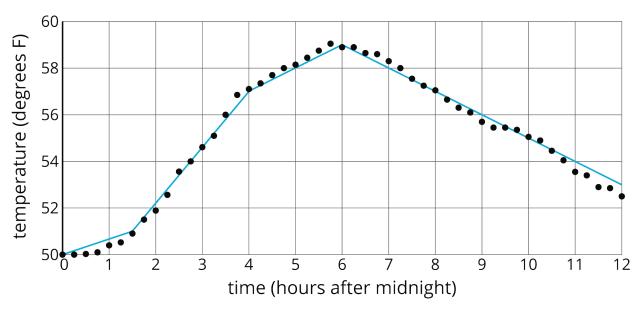
What do you notice? What do you wonder?



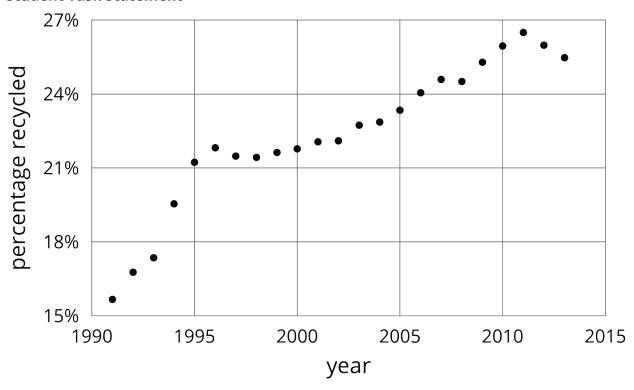
# 2 Modeling Recycling

## Images for Launch





#### **Student Task Statement**

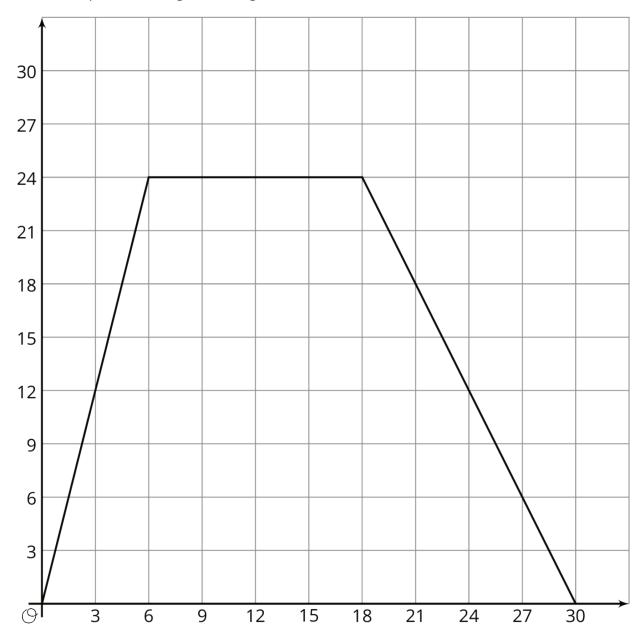


- 1. Approximate the percentage recycled each year with a piecewise linear function by drawing between three and five line segments to approximate the graph.
- 2. Find the slope for each piece. What do these slopes tell you?

### 3 Dog Bath

#### **Student Task Statement**

Elena filled up the tub and gave her dog a bath. Then she let the water out of the tub.

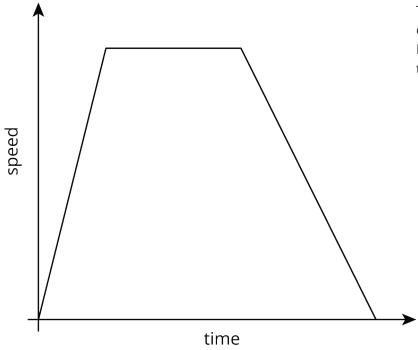


- 1. The graph shows the amount of water in the tub, in gallons, as a function of time, in minutes. Add labels to the graph to show this.
- 2. When did she turn off the water faucet?
- 3. How much water was in the tub when she bathed her dog?
- 4. How long did it take for the tub to drain completely?

- 5. At what rate did the faucet fill the tub?
- 6. At what rate did the water drain from the tub?

# 4 Distance and Speed (Optional)

### **Student Task Statement**



The graph shows the speed of a car as a function of time.

Describe what a person watching the car would see.