

# Kiss & Ride Idling Data Worksheet

(Adapted from Clean Air Partnership, 2009)

Goal: Track how many cars and buses idle at the drop-off, how long they idle, and calculate fuel wasted and CO<sub>2</sub> emitted.

## Step 1: Observe and Record

Choose a 10-minute window during busy times (e.g., morning or end of day drop-off).

Count the number of cars and buses that are idling in the Kiss & Ride area.

Record how long they idle (approximate if needed).



## Step 2: Use These Conversion Factors

Vehicle Type	Fuel Wasted /10 min	Fuel Wasted /1 min	CO <sub>2</sub> Emitted /10 min	CO <sub>2</sub> /min
Car	0.1 L	0.01 L	0.24 kg	0.02 kg
Bus	0.67 L	0.067 L	1.90 kg	0.19 kg

### Examples

- A car idles for 3 minutes →  $0.01 \times 3 = 0.03$  L of fuel wasted,  $0.02 \times 3 = 0.06$  kg CO<sub>2</sub> emitted
- A bus idles for 7 minutes → 0.47 L fuel wasted, 1.33 kg CO<sub>2</sub> emitted

## Step 3: Summarize your Data

- **Total Vehicles Observed:**
- **Total Fuel Wasted:**
- **Total CO<sub>2</sub> Emitted:**

**Example Statement:** “During a 10-minute Kiss & Ride observation, 12 cars idled for an average of 5 minutes. That’s 0.6 L of fuel wasted and 1.44 kg of CO<sub>2</sub> released — just in 10 minutes!”

## Step 4: Reflect & Share

- What difference would this make in fuel saved and CO<sub>2</sub> avoided?
- Share your results with classmates, staff, and parents to raise awareness