

LESSON 2 RESOURCE : GAME RULES AND CARDS

Low Emissions Dash Game

Materials:

- 2-3 sets of the Travel Action Cards (e.g. walk, cycle, bus, train, car solo, carpool, e-scooter)
- Emissions Cones or Zones: 4 coloured cones or signs placed across the room/oval labelled with emission levels:
 - Very Low (e.g., walk/bike ride)
 - Low (e.g., bus/train)
 - Medium (e.g., e-scooter/carpool)
 - High (e.g., solo car)

How to Play:

1. Set up your space indoors or outdoors with the 4 cones/zones spaced out.
2. Assign students into small teams (3–5 students).
3. One student per team runs to the teacher and draws a Transport Mode Card from their set of coloured Transport cards.
4. They race back to their team and discuss which category they think it belongs.
5. Students have 20 seconds to decide.
6. The student who drew the card then races to the zone they think matches that mode's average g CO₂ per person-kilometre and places it face-down next to the cone before time runs out.
(Note: Teams place their cards in their own separate pile, away from the other teams.)
7. Every student in each team repeats this process once.
8. The teacher then reads out the real emission value of each mode and checks the cards at each zone for a correct match. Points are awarded:
 - 2 points for correct zone
 - 1 point for near match (one zone away)
 - Bonus point if students can name a benefit of that mode (e.g., "Bus reduces traffic!") – asked when calculating scores.

Debrief after the game:

- Which mode surprised you most?
- What does this tell us about the way we usually travel?
- Regional trains have greenhouse gas emissions, how might this affect the results?

Transport Mode Example Values (g CO₂ per person km):

- Walk: 0
- Cycle: 0
- E-Scooter: 22
- Train: 0 (metro)
- Bus: 22
- Car (solo): 194
- Carpool (2–3 people): ~97

Adaptations:

- Indoors: replace zones with posters on walls; students walk/jog to their zone.
- Add a time trial element for higher intensity (PE crossover).
- Use emoji clues on cards to make it more cryptic and visual (e.g., 🚌, 🚶, 🛴, 🚗)