

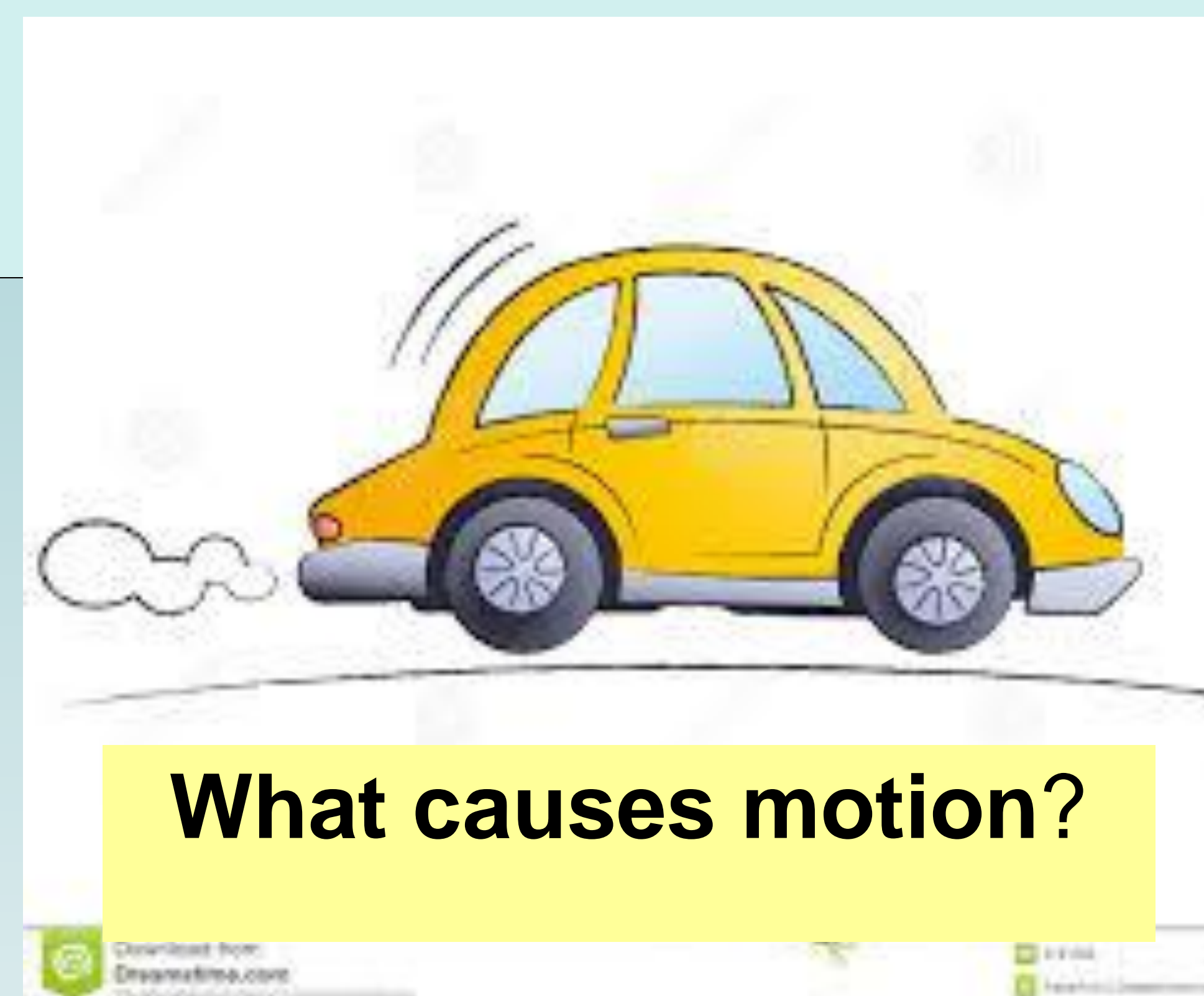
## Effectiveness of a Ramp Meter at Reducing Freeway Emissions



- When a car accelerates the engine emits more emission
- Ramp meters keep the traffic flowing so cars are not accelerating as often
- Effectiveness of Ramp Meter systems can be analyzed using MOVES

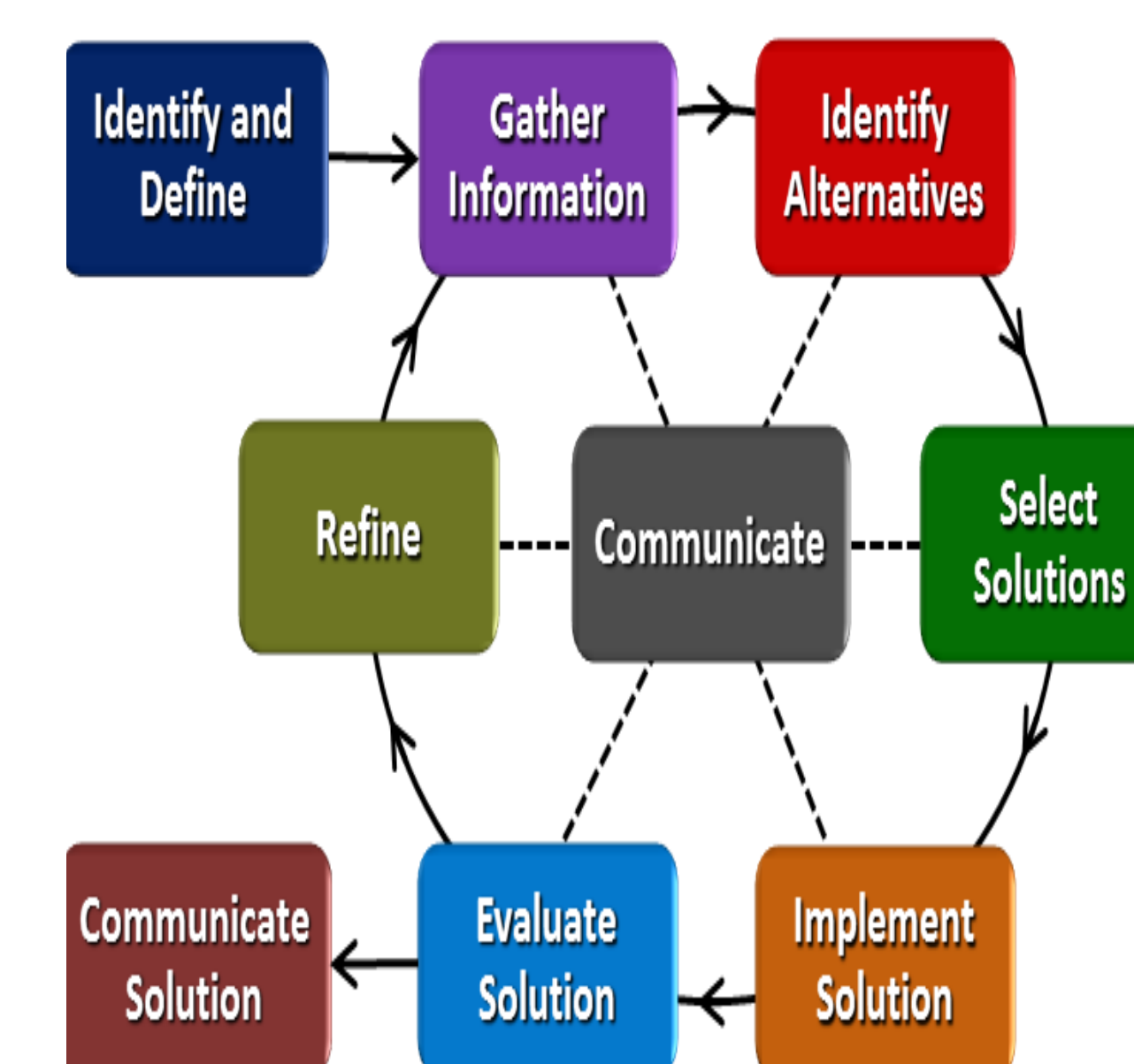
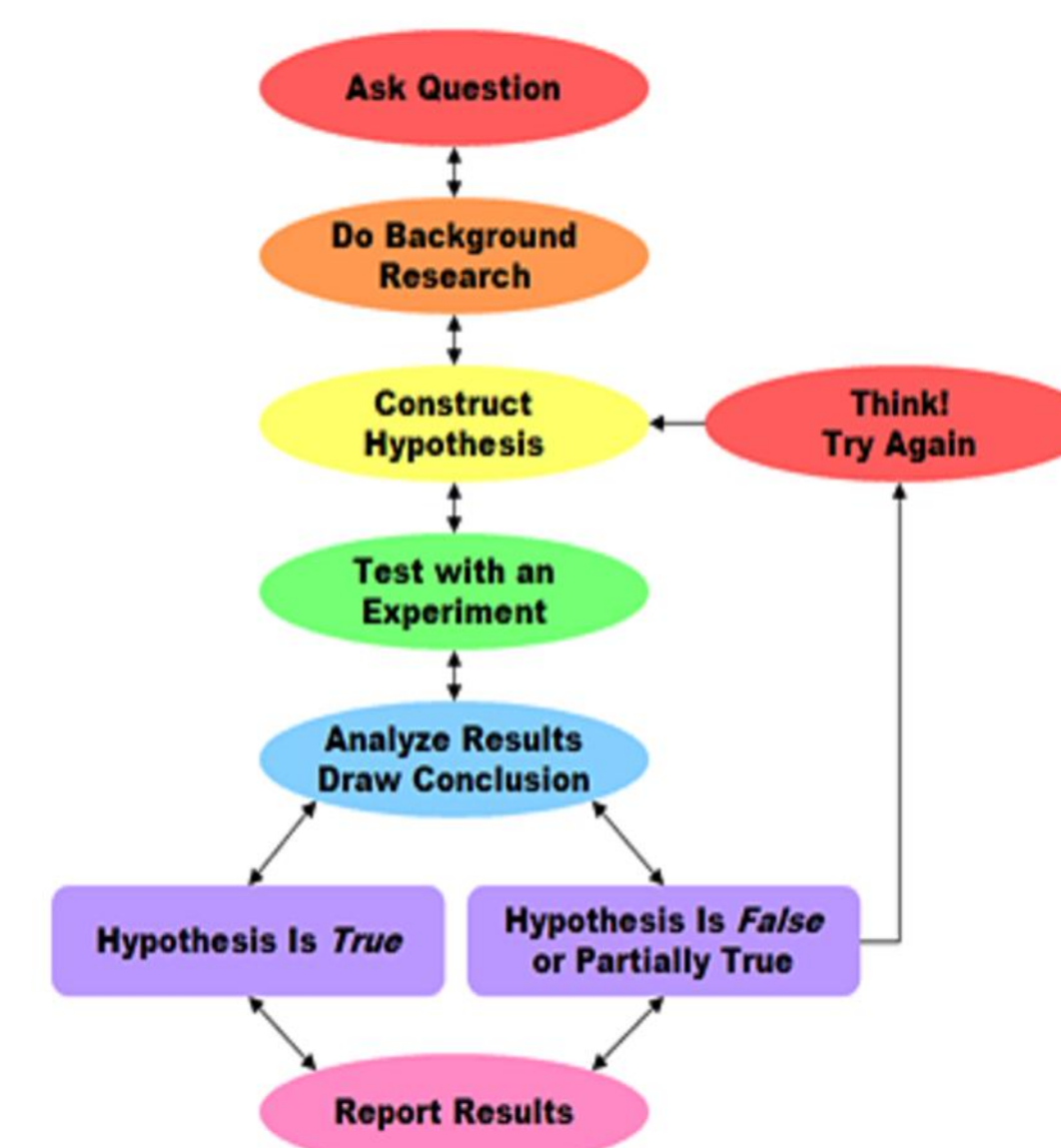


## Teaching Method

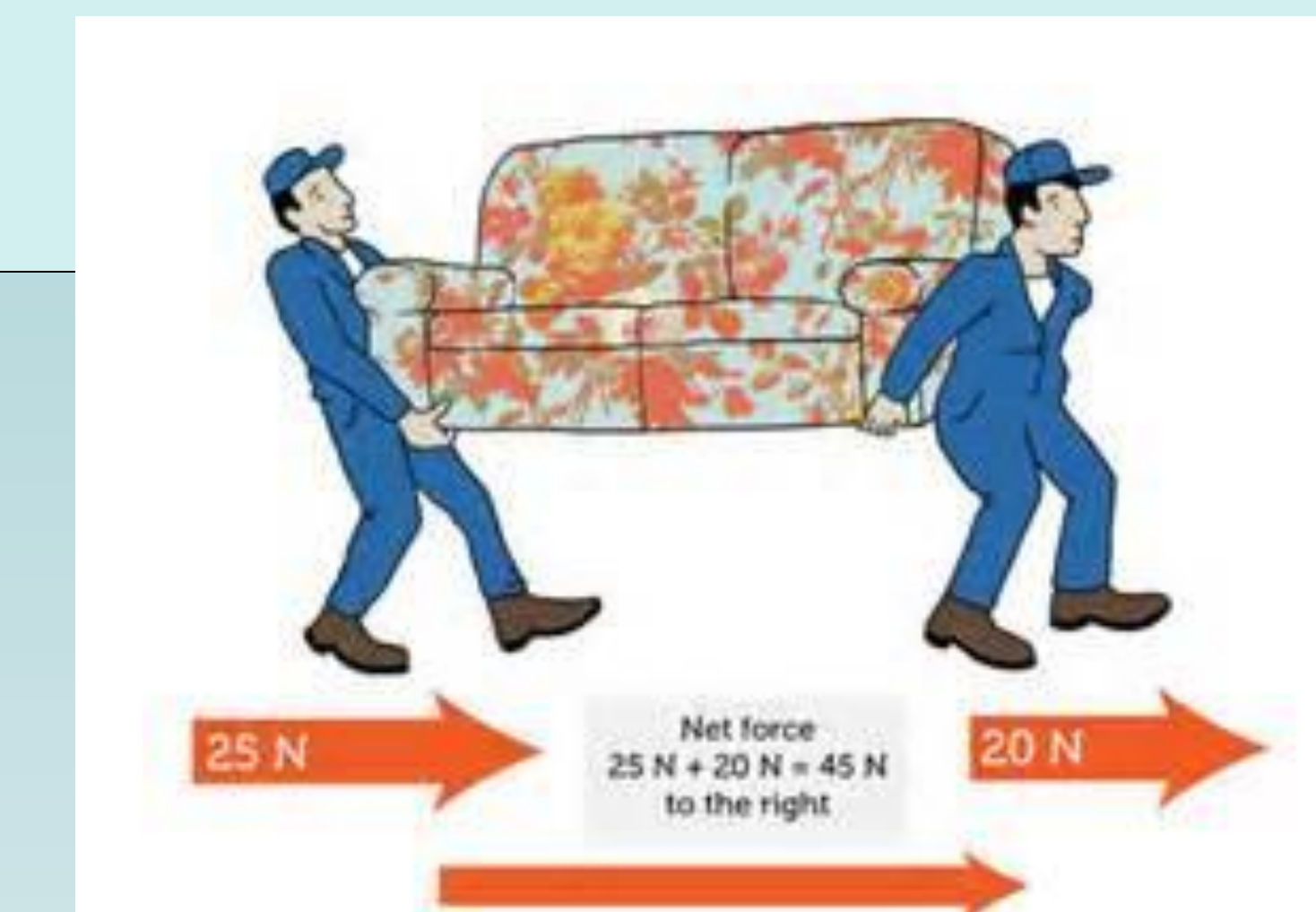


Scientists use two methods to explore our world. Scientific method and the Engineering Design Method.

## Scientific Method



## Force, Motion and Speed



- I can determine the forces that can move an object that is at rest.
- I can calculate the speed of an object.
- I can predict the movement of an object based on the force applied and the object's mass.

