

Controls

- Introduction
- Aim of lesson
- By the end of the lesson you will be able to complete the safety routine on entering the car, and identify and operate the main controls. If time allows you will also learn how to start the car and discuss moving off in preparation for your next lesson
- Have you any experience on the road? Cycle, moped etc

Cockpit Drill

- Check closed by pulling door
- Look in mirrors for flush fitting
- Warning light on dashboard
- Check mirrors and blind spots before opening

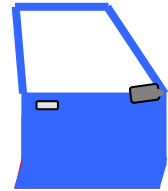
- Forwards by pulling up lever
- Should have slight bend in leg when fully depressed clutch
- Adjust back by turning knob on side
- Adjust head restraint height

- Check height of steering column & adjust if necessary
- Loosely slide hands around steering wheel arms should be slightly bent

- Pull down with left hand
- Make sure not twisted
- Fix in slot
- Give tug to make sure working
- Drivers responsible for passengers under 14
- When you release it feed it back

- Vital aid to driving (third eye)
- Adjust by not touching glass
- Door mirrors – convex
- NEVER adjust while moving

Doors



Seat



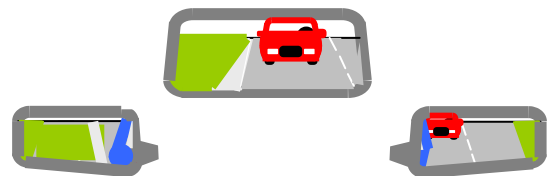
Steering Wheel



Seatbelt

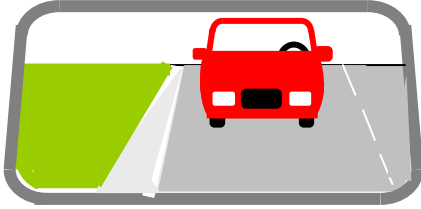


Mirrors

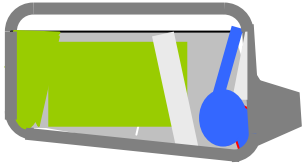


Fuel

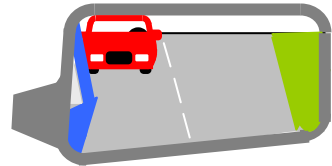
Mirrors



Flat glass

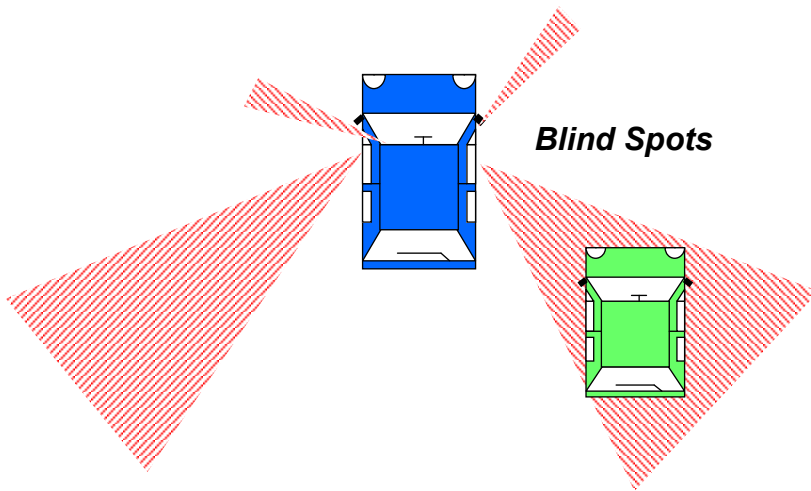


Convex glass

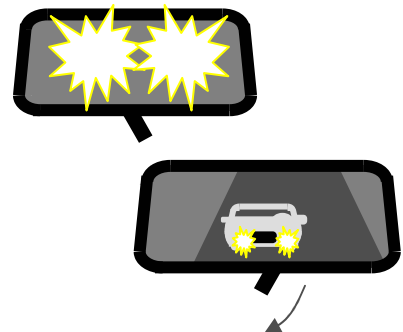


- D**irection
- O**vertaking
- S**ignalling
- S**topping

Frequent checks



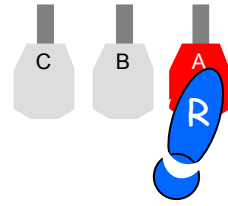
Blind Spots



Controls (foot)

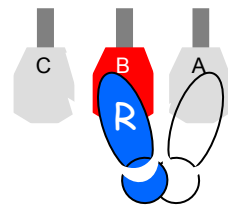
Accelerator (Gas)

- Right foot only
- When pressed produces more power from engine
- Cover the gas
- Set the gas
- More gas
- Less gas
- Off the gas
- Always use gently and under control



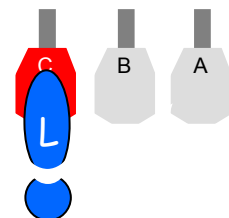
Brake

- Also used by right foot
- Practice by keeping heel on floor and pivot from gas
- Used to slow or stop the car
- Applies brakes to all 4 wheels
- Brake lights show to warn following road users
- Progressive braking
- Cover brake, Gently brake -
- Brake
- Brake to stop
- Off brake



Clutch

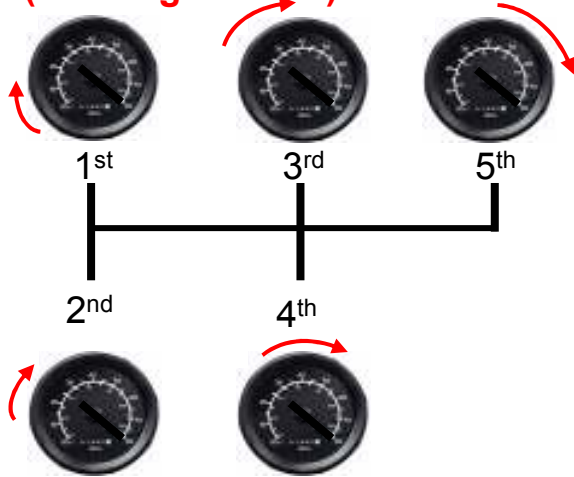
- Used by left foot
- When pedal is pressed the link between the engine and driving wheels is broken; this allows you to change gear and stop the car without stopping the engine (stalling)
- Clutch control is used to move the car very slowly
- Always raise clutch pedal slowly and under control
- Cover clutch
- Clutch down
- Clutch up smoothly



Controls (hand)

Gears

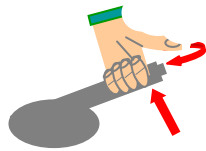
(Palming method)



Gear	Power	Speed	MPH
1	High	Low	0-10
2	↑	↑	10-25
3			20-40
4	↓	↓	30-50
5	Low	High	40-70
R	High	Low	0-5

Handbrake

(Parking Brake)



Indicators

(Finger tips)



Steering Wheel

- ❑ Turns front wheels
- ❑ Keep both hands on wheel unless: changing gear or using ancillary control,
- ❑ NEVER take both hands off wheel
- ❑ Use PULL-PUSH method don't cross hands - Smooth movements
- ❑ Never dry steer
- ❑ Don't let slip back through your fingers



Starting the Engine

- ❑ Insert Key - Check steering isn't locked – turn wheel L & R slightly
- ❑ 1st position – unlock the wheel
- ❑ 2nd position – interior lights and electric windows
- ❑ 3rd position some dashboard lights come on, some go off - Handbrake light is on
- ❑ Turn key again to 4th position and release as engine fires
- ❑ If any lights remain on – investigate before moving away.



Moving Off and Stopping

- Introduction
- Aim of lesson
- Last lesson / how it went / bite point?
- At the end of this lesson you will be able to move away safely and stop the car, choosing a safe and suitable place. You will also know how and when to use mirrors

- Mirrors **vision and use**
 - Clean and clear
 - Door mirrors convex
 - Use every 6-10 seconds – glance only
 - Effective use
 - DOSS** - when change of **D**irection/**O**vertake/**S**ignal/**S**top -
 - MSPSL** routine
 - Blind spots

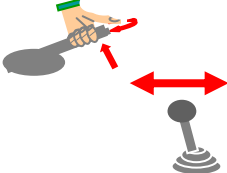
At the training area

- Precautions** before moving off /Planning to move off
 - DSSSM
- Planning to move off
 - Prepare
 - Clutch down
 - Select 1st gear
 - Set gas (lively hum)
 - Biting point – engine tone drops
 - Observations including blind spots
 - Which mirrors?
 - Blind spots
 - Signal if necessary
 - Manoeuvre
 - Slowly release clutch
 - Steer to driving position (1 metre from kerb)
 - Where to look
 - Cancel signal

Preparing to Move Off

Precautions before starting the engine

Handbrake on



Gears in Neutral



Start the engine

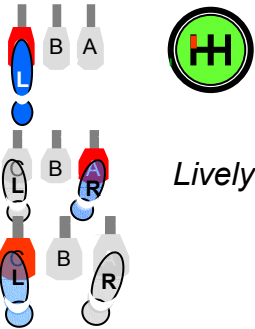
Preparing to move off **POM**

Prepare

Clutch Down / select 1st gear

Set the gas

Biting point



Observation

Mirrors / Blind spot



Manoeuvre

Slowly release handbrake

Slowly increase gas



Smooth co-ordination of controls

Moving Off

- Introduction
- Aim of lesson
- Give commentary on mirrors on the way to the training area
- Last lesson / how it went / bite point?
- Objectives** At the end of this lesson you will be able to move away safely and stop the car, choosing a safe and suitable place. You will also know how and when to use mirrors

Moving Off

Prepare

- Clutch down
- Select gear
- Set gas (lively hum)
- Biting point - Slowly bring up clutch until the engine sound drops slightly.
- Keep feet still.

Observe

- MSM**
- All around checks including blind spots
- Signal if required

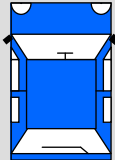
If it's safe to move

Manoeuvre

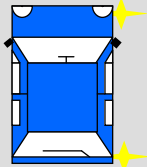
- Release the handbrake
- Smooth control of clutch – press gas pedal gently
- (**Co-ordination of controls**)
- As you start to move check mirror again
- Steer towards normal driving position
- Cancel signal (if applicable)
- Look ahead and pick up speed.

Moving Off

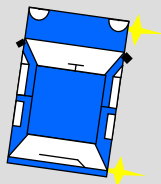
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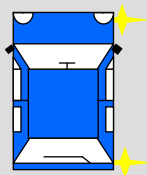
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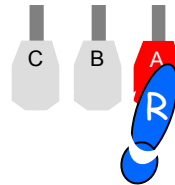
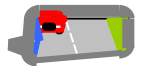
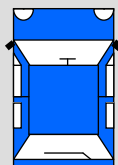


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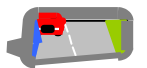
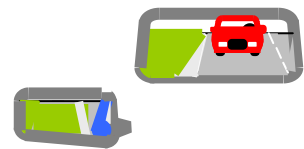
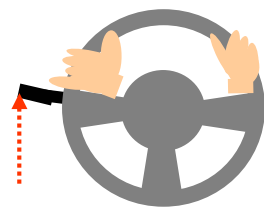
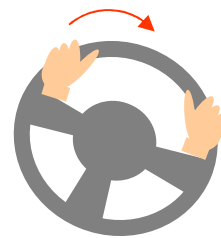


M

Blind Spots



2nd gear



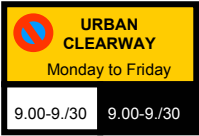
Stopping

Stopping

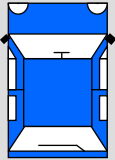
- Selecting a safe place (**Normal Stop Position**)
 - Safe
 - Convenient
 - Legal
 - Possible

- MSPSL routine
 - Mirrors**
 - Signal** if necessary
 - Position** - Steer towards kerb – parallel
 - Speed Brake** progressively (**Normal Stop Control**)
Just before you stop press the clutch right down. Ease off brake so that the car stops smoothly
 - Keep both hands on wheel until stopped
 - Apply handbrake / Select neutral
 - Cancel signal if you applied one

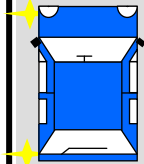
Stopping



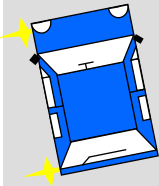
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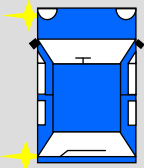
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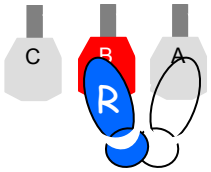
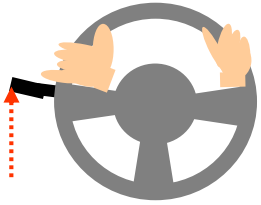
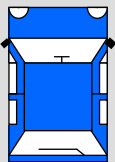


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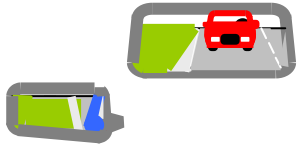
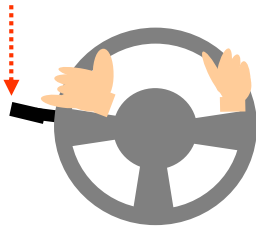
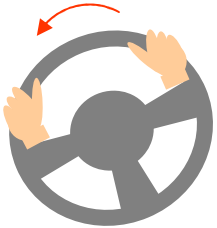


M

Blind Spots



Brake progressively



Approaching Junctions to turn left

- Introduction
- Aim of lesson
- Last lesson / experience / other driving
- At the end of today you will be able to identify and cope safely with left turns from a major road into a minor road, under control and with due regard for the safety of other road users.

MSPSL

Mirrors

Signals – careful timing so as not to confuse other road users.

Position – maintain normal driving position.

Speed – adjust your speed by gently braking and select the appropriate gear for the speed in order to negotiate the corner.

Look – just before you turn, check interior and left door mirrors and also look into the road you are turning into to ensure it is safe to proceed.

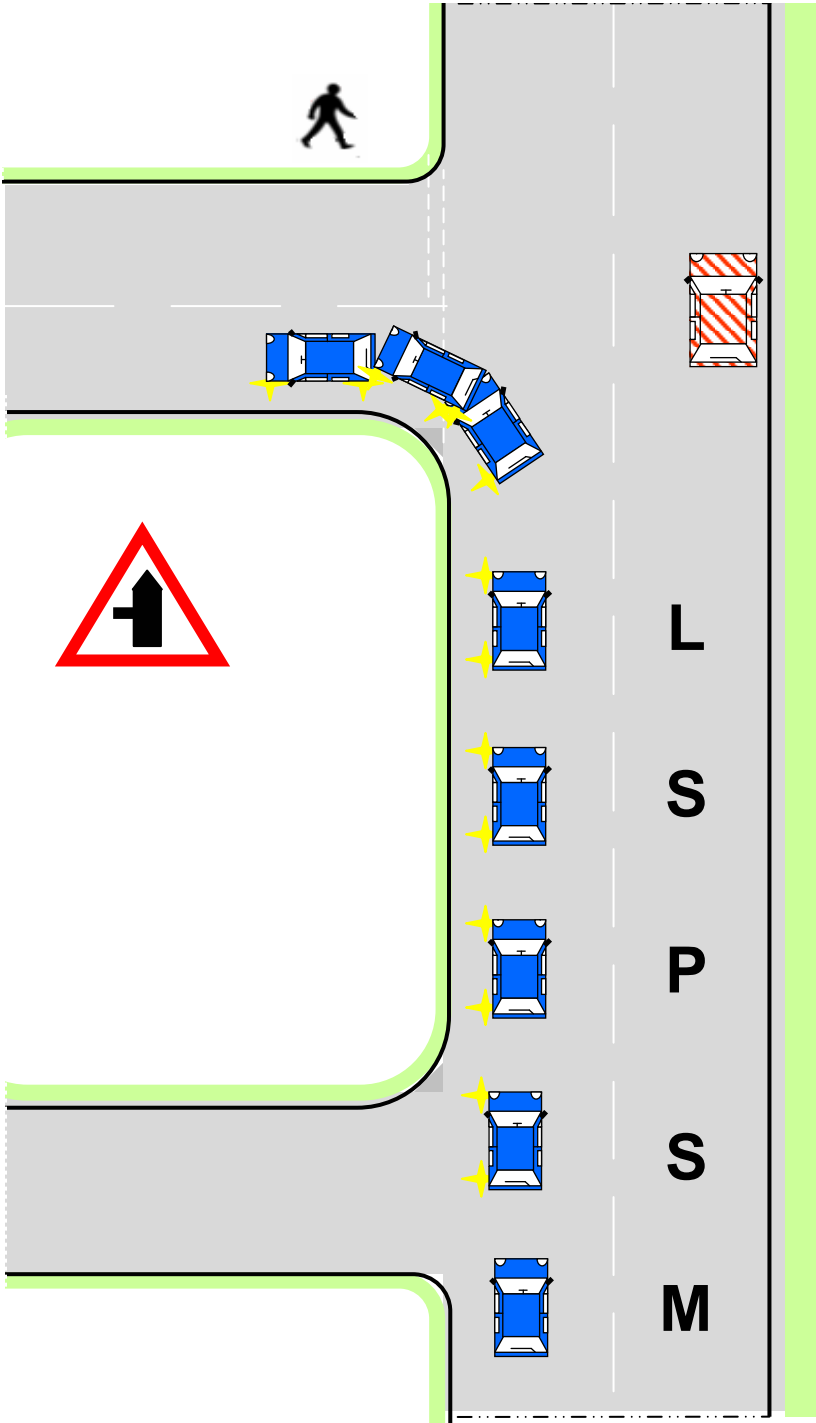
Once in the new road, check mirrors before increasing speed .

Observations – check for pedestrians and cyclists.

Hazards – parked cars

Controls – coasting

Approaching Junctions to turn left



 = hazard

- Approach at right speed and gear for the turn**
- Signal timings**
- Effective observations**
- Give way to Pedestrians**

Approaching Junctions to turn right

- Introduction
- Aim of lesson
- Last lesson / experience / other driving
- At the end of today you will be able to identify and cope safely with right turns from a major road into a minor road, under control and with due regard for the safety of other road users.

MSPSL

- Mirrors** – interior and right door mirrors
- Signals** – careful timing so as not to confuse other road users.
- Position** – steer towards the right - aim for just left of the centre line.
- Speed** – adjust your speed by gently braking and select the appropriate gear for the speed in order to negotiate the corner safely.
- Look** – Check interior and right door mirrors again and also look ahead to check for oncoming traffic. Just before turning also look into the road you are turning into to ensure it is safe to proceed.

Once in the new road, check mirrors before increasing speed .

Observations – check for pedestrians and cyclists.

Point of turn

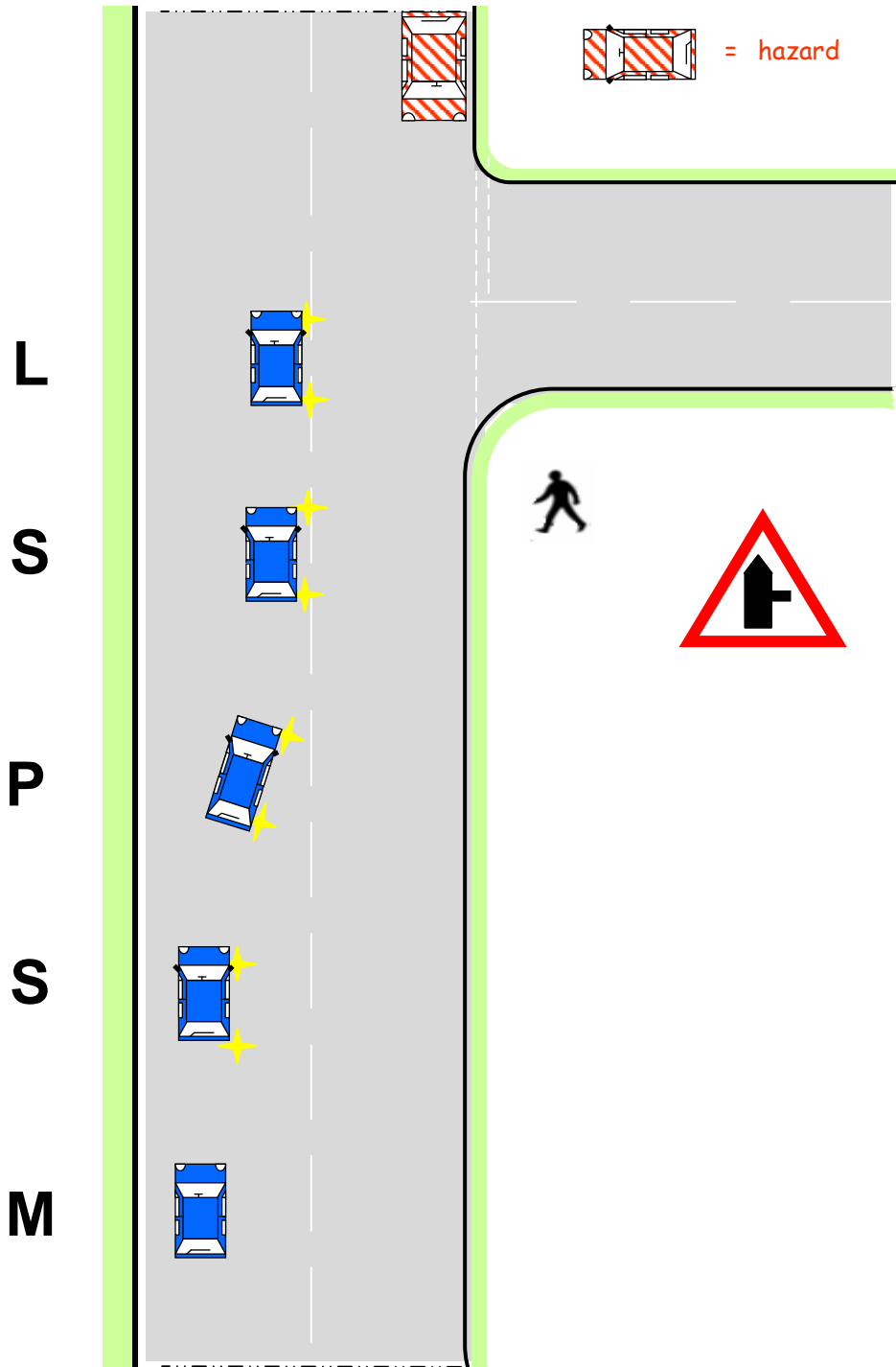
Hazards – parked cars

Crossing approaching traffic

Right corner cut

Controls – coasting

Approaching Junctions to turn right



T-junctions Emerging

- Introduction
- Aim of Lesson
- Last lesson / experience
- At the end of today you will be able to emerge more safely and correctly at T-junctions

Stop and Give Way / Open and Closed

MSPSL

- Mirrors** – interior and door mirrors
- Signals** – careful timing so as not to confuse other road users.
- Position** – normal driving position for left / just left of centre line for right
- Speed** – adjust your speed according to the type and your zones of vision.
- Look** – and assess the junction to decide if safe to proceed, check zones of vision, creep and peep if necessary.

Observations – pedestrians and cyclists. Also traffic on the major road, cutting across the path of traffic when turning right.

Point of turn

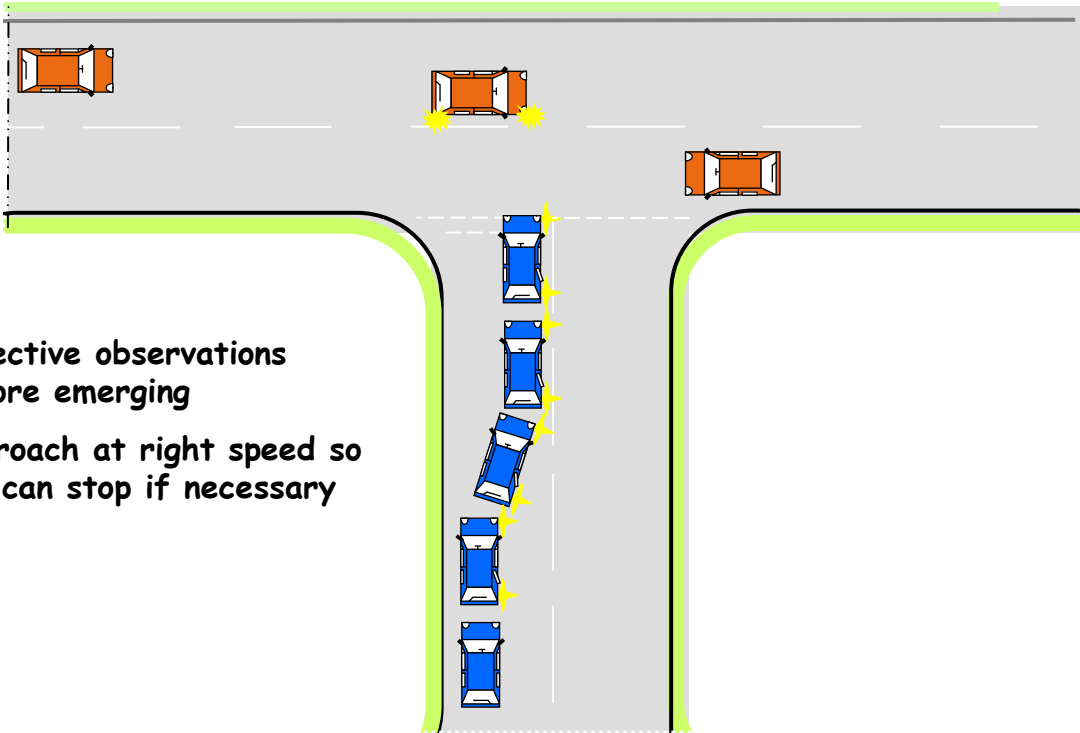
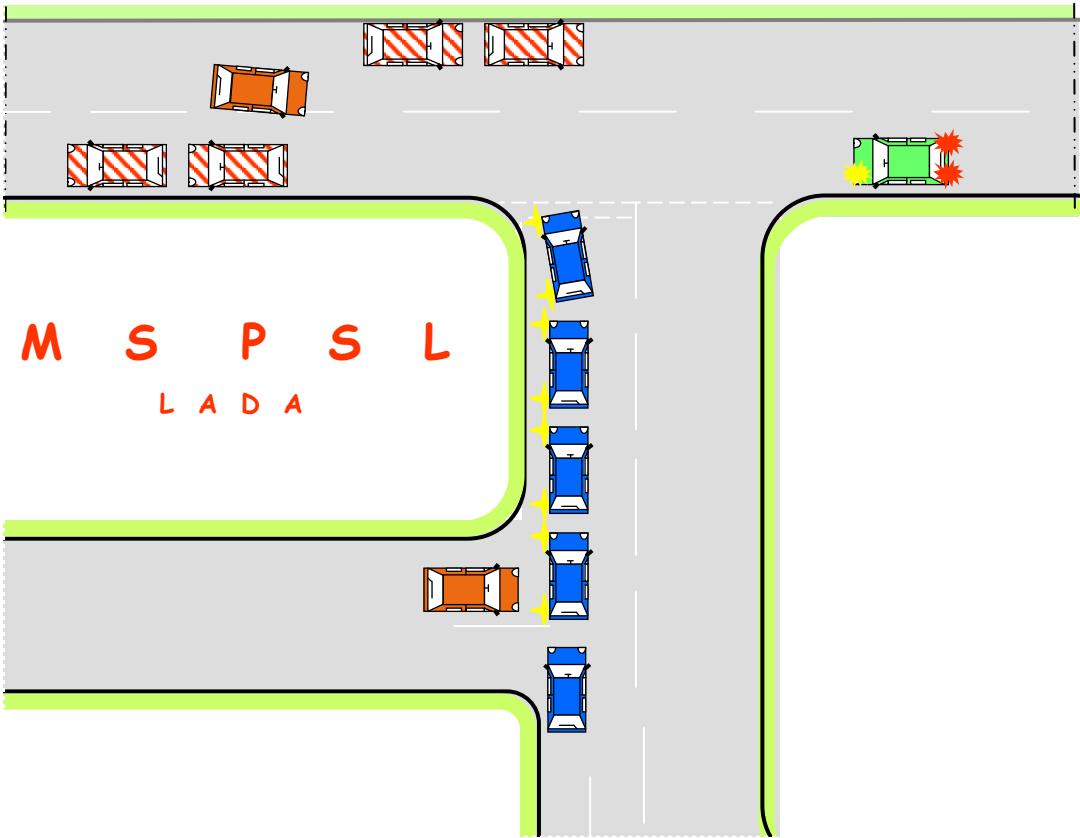
Hazards – parked cars

Crossing approaching traffic

Right corner cut

Controls – coasting

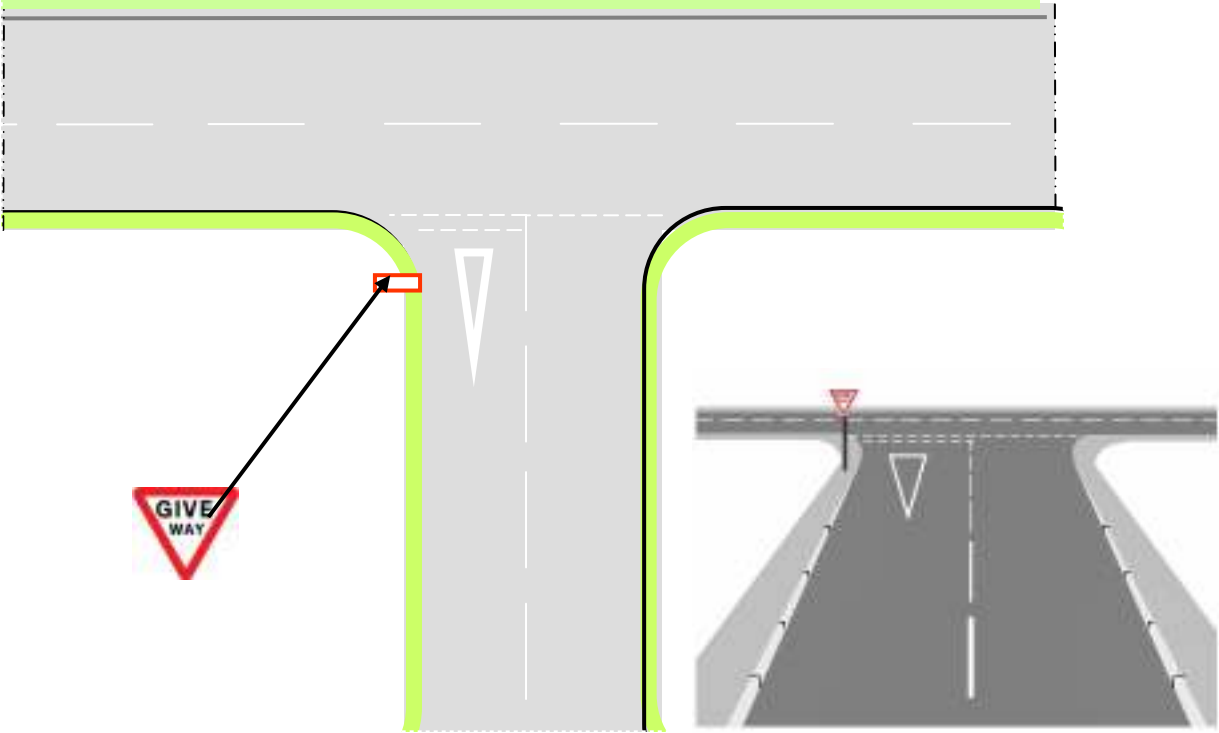
T-Junctions emerging



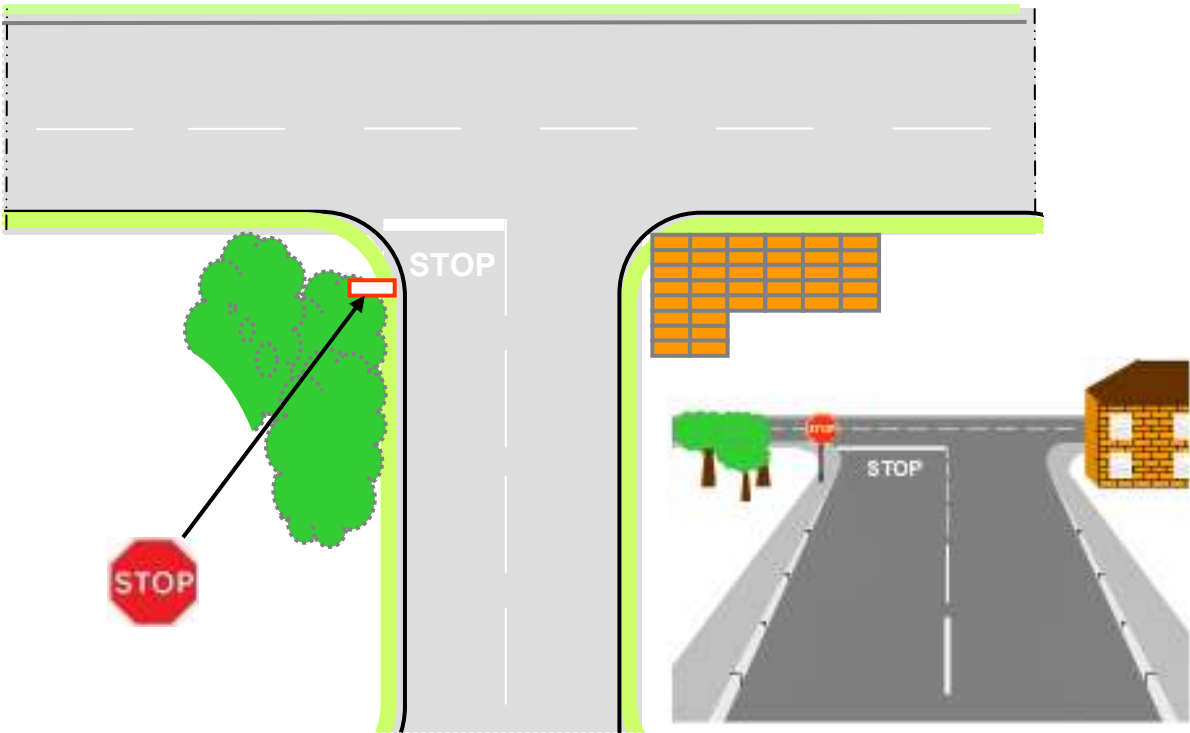
Effective observations
before emerging
Approach at right speed so
you can stop if necessary

T-Junctions emerging

Open – Stop if necessary

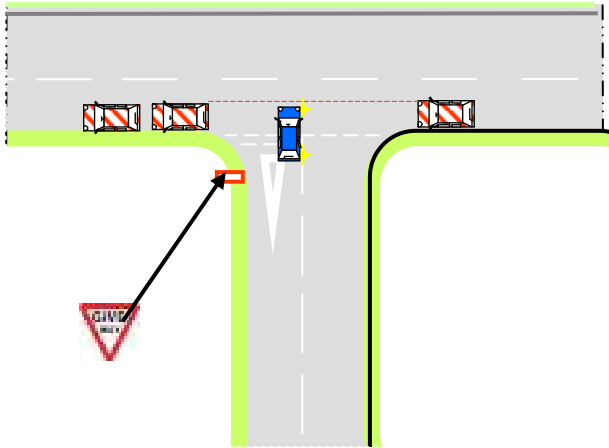


Closed – Always stop

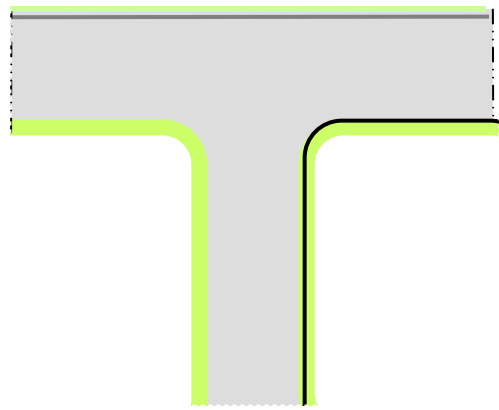


T-Junctions emerging

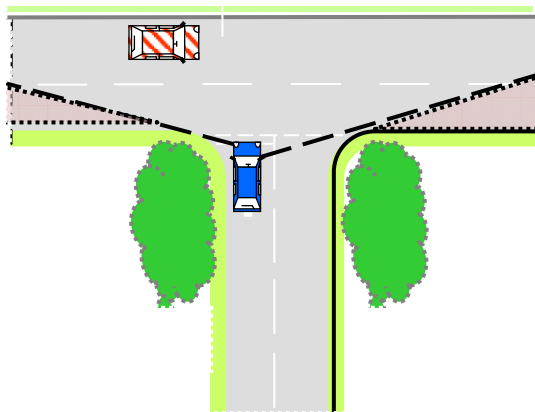
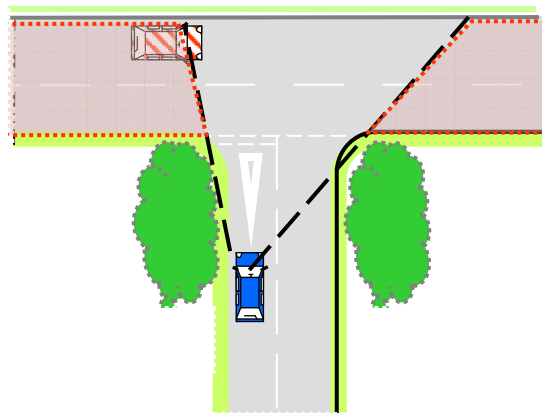
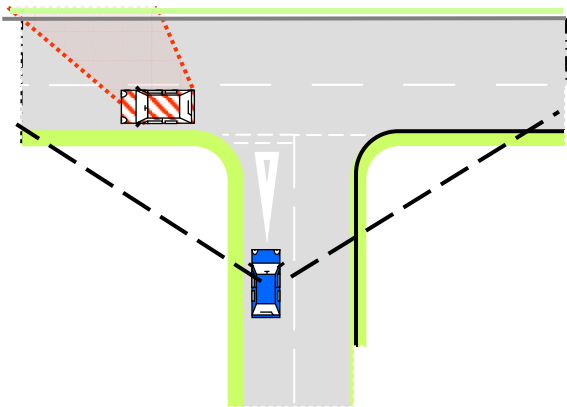
Creep and Peep



Unmarked – stop if necessary



Zones of Vision



Emergency Stop and Use of Mirrors

- Introduction
- Aim of lesson
- Last lesson / experience
- By the end of this lesson you should be able to stop the car in an emergency, promptly and with full control of the brakes and steering.
- Also to be aware of thinking and braking distances.
- You will learn about the causes of skidding and how to correct a skid

Mirrors not used in Emergency Stop.

Regular mirror checks – no time in emergency

- Scanning ahead and around you.
- Quick reaction to stop quickly and safely
- Both hands on the steering wheel until the car has stopped.
- Braking firmly and quickly
- B** Brake **B**efore **C**lutch
- Just before you come to a stop press down the clutch
- When the car has stopped apply the handbrake and select neutral

Do POM before moving away again.

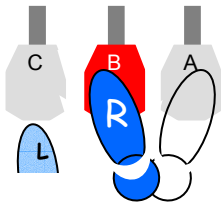
Emergency Stop and Use of Mirrors



No time to check mirrors



Hold steering wheel firmly with both hands

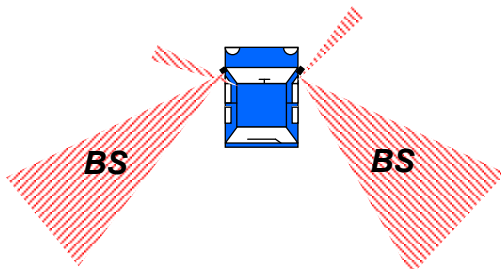


Quick, firm, progressive braking – clutch down at the last minute

BBC = Brake Before Clutch



Secure the car



Take a deep breath – carry out POM routine 360 degree checks including blind spots

Skidding▶

Braking & Skidding

Skidding

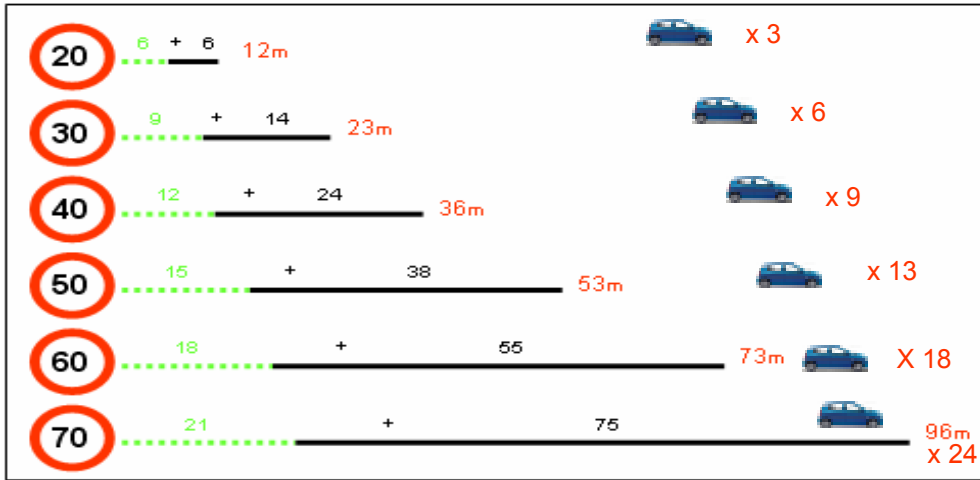
Causes

- Driver
 - Speed / incorrect braking
 - Too harsh for road and weather conditions
 - Erratic Steering
- Vehicle
 - Tyres
 - Mechanical fault with brake system
- Weather / Road Conditions
 - Snow, Ice, Wet, Leaves, Mud

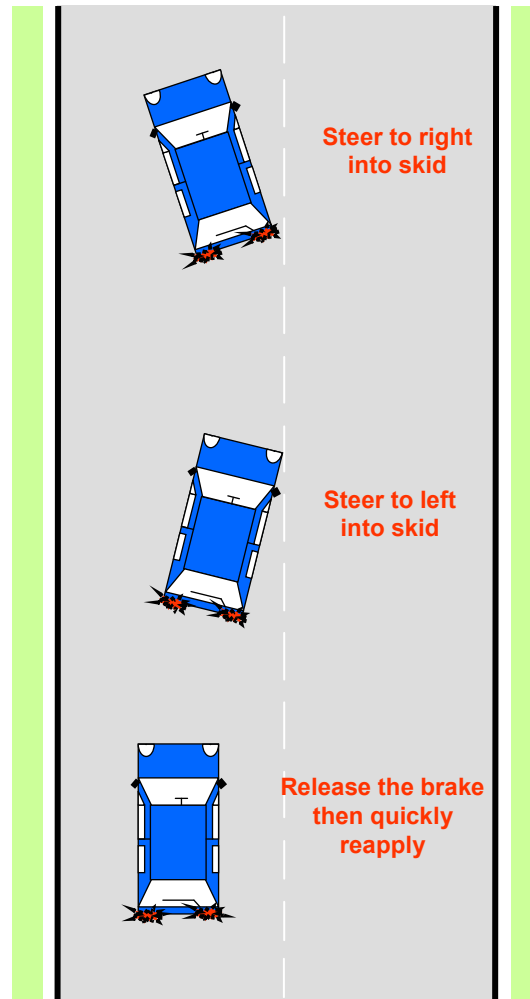
Correction

- Prevention better than cure
- Ease off brake to let wheels start turning again and quickly re-apply - cadence
- Ease off gas
- ABS - Anti-lock Brake System – detects wheel lock and applies cadence braking – reduces chances of skid but doesn't prevent it.
- Steer gently into the skid (the direction you want the car to go) to correct the skid

Skidding



Thinking Distance + Braking Distance = Stopping Distance



Pedestrian Crossings

- Introduction
- Aim of lesson
- Last lesson / experience
- By the end of this lesson you should be able to approach and act correctly at different types of crossings, showing awareness of other road users. You will also understand the importance of the use and correct timing of signals

Pedestrian Crossings

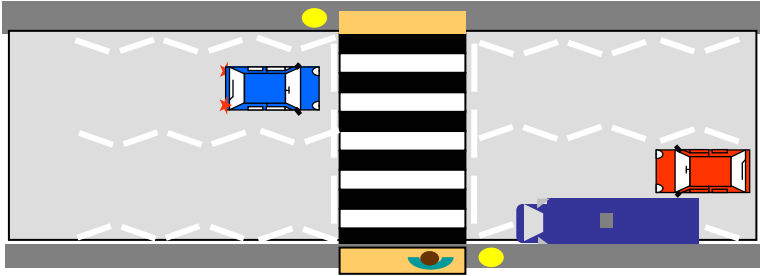
- Uncontrolled (Zebra)
- Controlled (Pelican / Puffin / Toucan)
- Supervised (school /traffic warden)

- MSM** on approach
- Speed on approach**
- Stop when necessary**
- Never overtake on approach to a crossing**
- Never beckoning pedestrians to cross**

- Sequence of lights
- Zebra crossings with islands

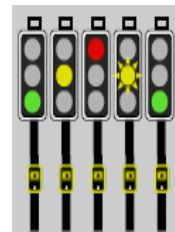
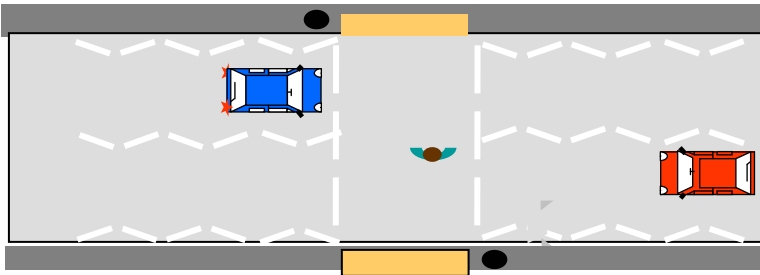
Pedestrian Crossings and the use of Signals

Zebra

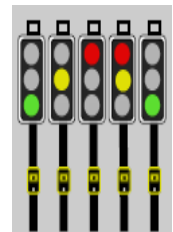


Zebra with an Island

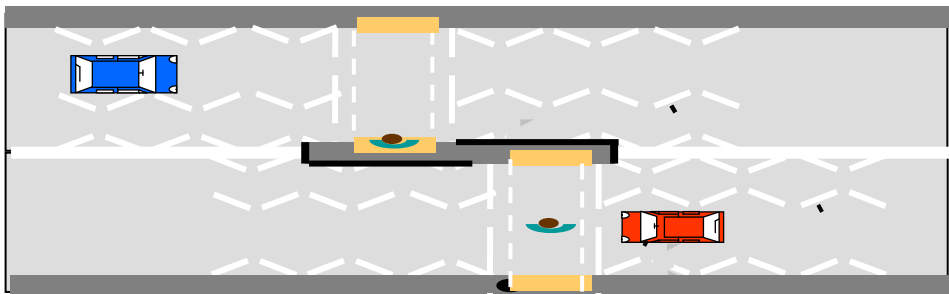
Pelican/Puffin



Pelican
Flashing Amber



Puffin
Sensor



Crossroads

- Introduction
- Aim of lesson
- Last lesson / experience / other driving
- At the end of today you will be able to recognise different types of crossroads and deal with each one correctly and safely

- Unmarked – no priorities – make eye contact - never beckon
- Marked - ‘Stop’ and ‘Give Way’, traffic light controlled, yellow box.
- MSPSL routine
- Junctions and T-Junctions combined

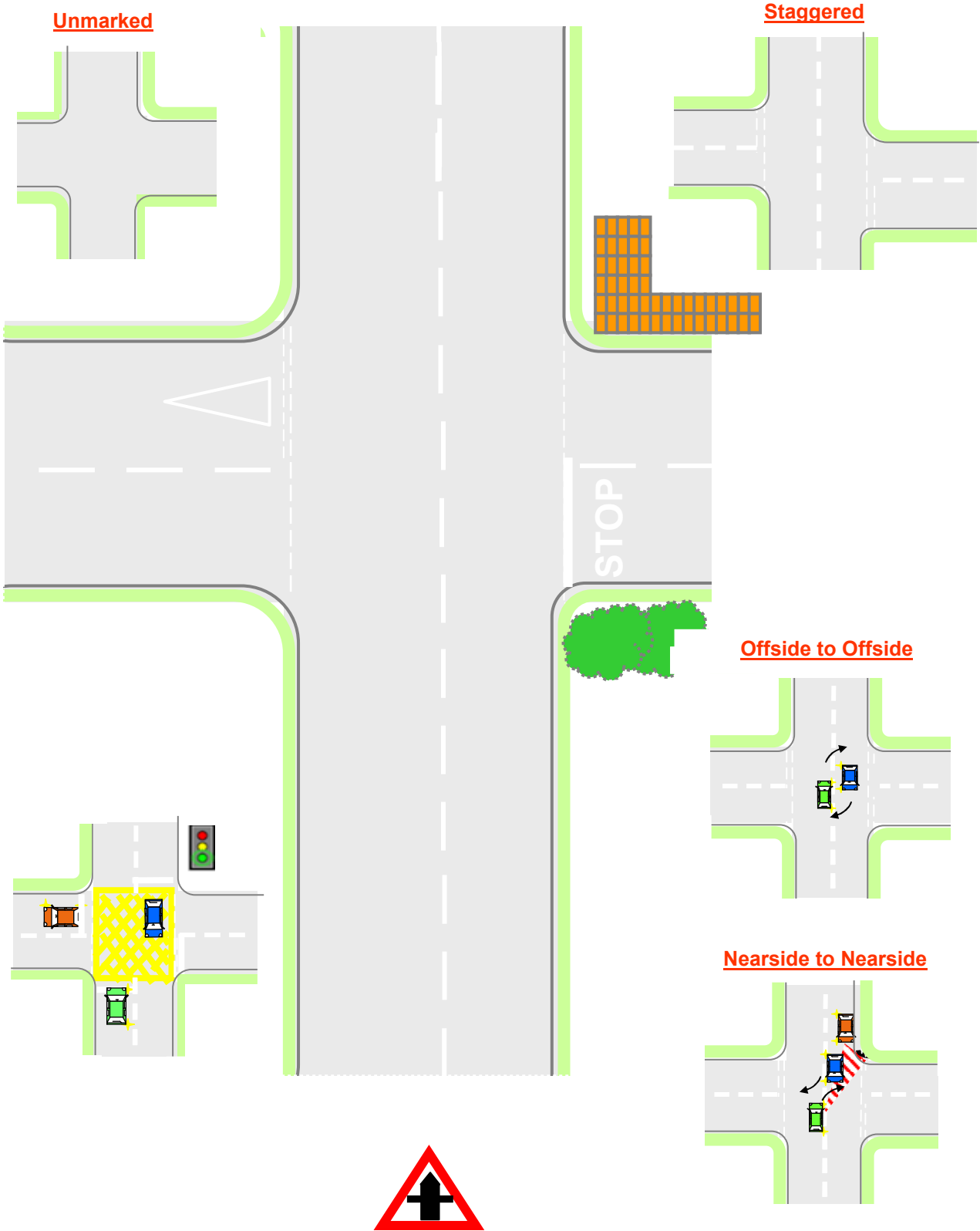
Approaching – to go straight on

- Look for road signs, gaps in hedges or houses, or for traffic lights
- Priorities
- Check mirrors on approach
- Ease off gas
- Assess all three roads as you approach and pass.

Approaching to turn left or right

- MSPSL routine on approach
- Observations/assess all three roads before turning
- Nearside and offside turning

Crossroads approaching



Crossroads

- Introduction
- Aim of lesson
- Last lesson / experience / other driving
- At the end of today you will be able to recognise different types of crossroads and deal with each one correctly and safely

- Unmarked – no priorities – make eye contact - never beckon
- Marked - ‘Stop’ and ‘Give Way’, traffic light controlled, yellow box.
- MSPSL routine
- Creep and peep if necessary

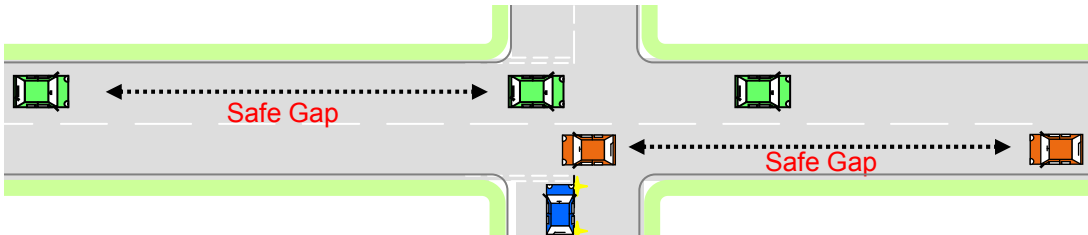
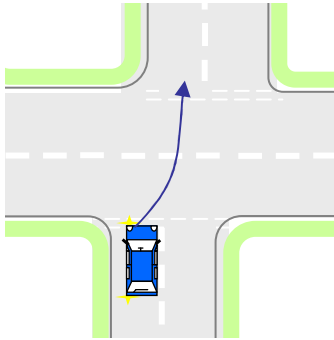
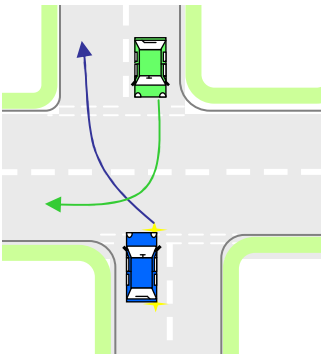
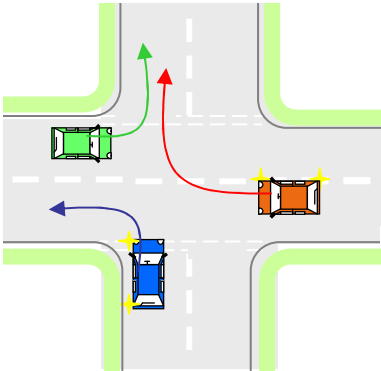
Emerging – to go straight on

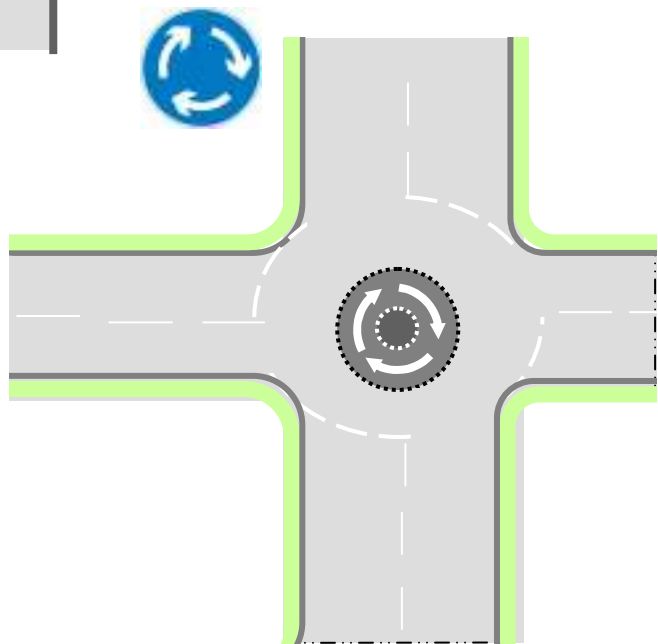
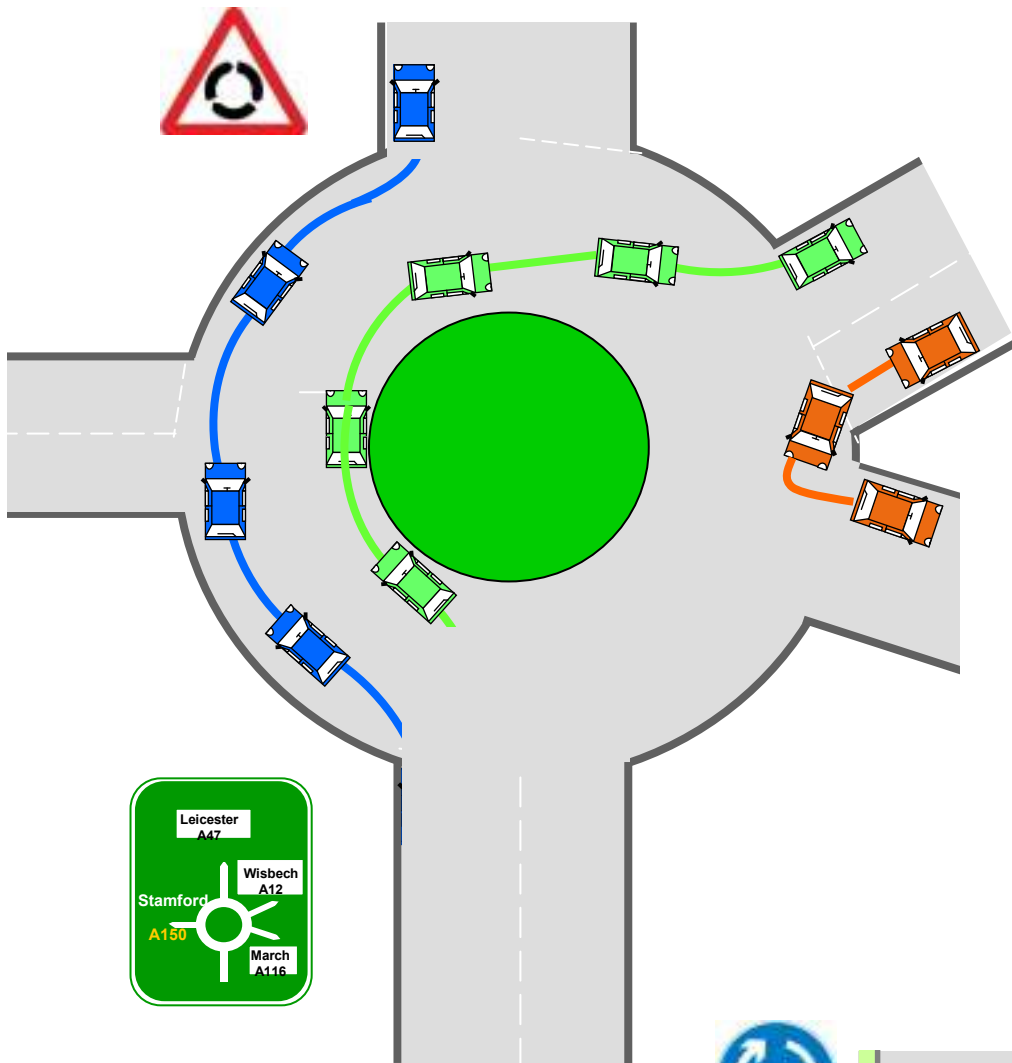
- MSPSL routine on approach
- Assess all roads – look right, left, opposite, right again as many times as necessary until safe to emerge.

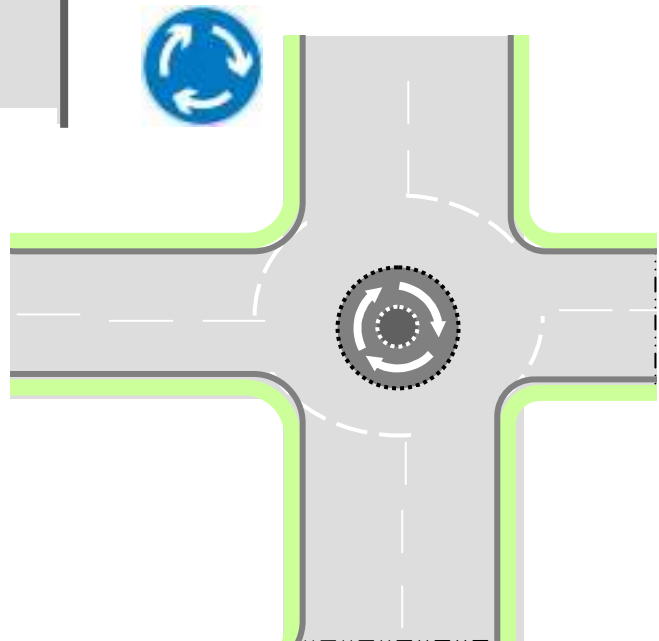
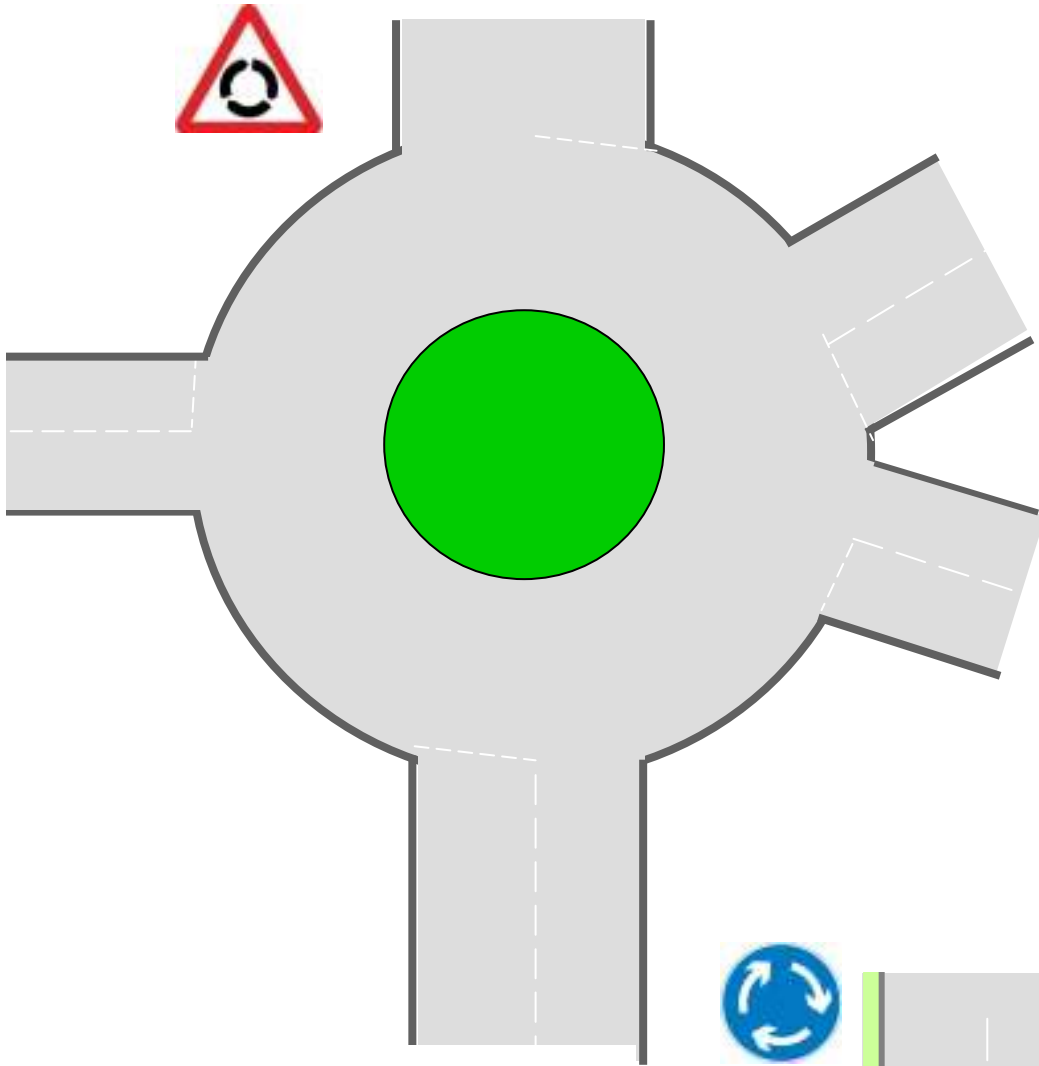
Emerging to turn left or right

- MSPSL routine on approach
- Assess all roads – look right, left, opposite, right again as many times as necessary until safe to emerge
- Nearside and offside turning

Crossroads emerging







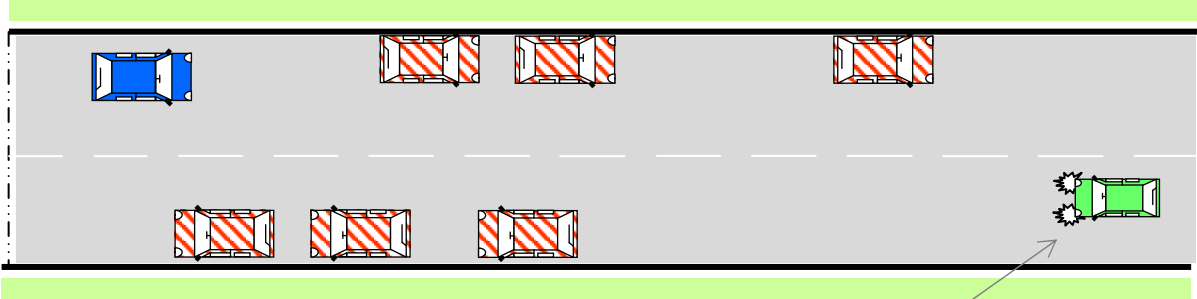
Meeting Traffic

- Introduction
- Aim of lesson
- Last lesson / experience / any problems?
- At the end of this lesson you will be able to meet traffic safely using anticipation , with due regard to other road users and allow adequate clearance when passing stationary vehicles or obstructions in the road.

- Look well ahead
- Use the MSPSL on approach.
- Priorities - Right of way
- Clearance – parked vehicles, oncoming vehicles.
- Speed – “The lower the gap, the lower the speed”
- Never beckon other road users
- Eye contact
- Hold back position

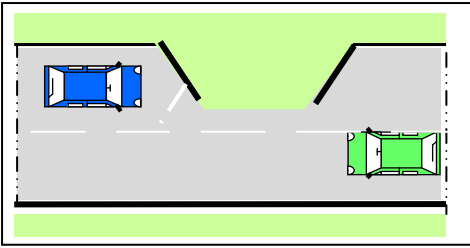
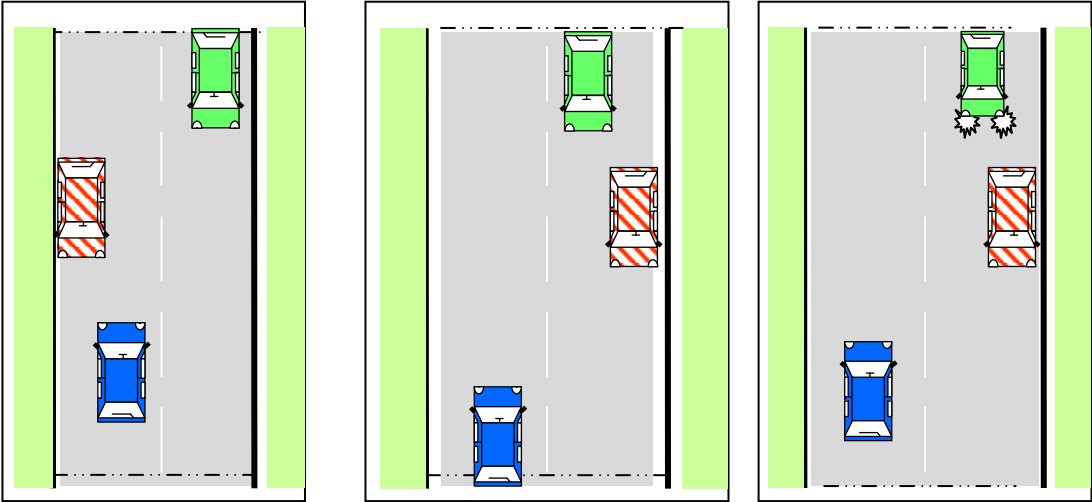
Meeting Traffic

Meet



Hold back position
Beckoning / flashing

The lower the gap the slower the speed



Eye contact

Adequate Clearance

- Introduction
- Aim of lesson
- Last lesson / experience / any problems?
- At the end of this lesson you will be able to meet traffic safely using anticipation , with due regard to other road users and allow adequate clearance when passing stationary vehicles or obstructions in the road.

- Leave enough space around you whilst driving
- Distance from kerb
- Distance from parked cars
- Distance from cars in front
- Check the gap behind you - leave a gap to allow you to stop safely if the car ahead stops.
- Braking distances
- Weather conditions

Adequate Clearance

In good conditions

40+ 2 second rule

>40 Braking distance

20 = 2 car lengths

30 = 4 car lengths

Road Position (where possible)

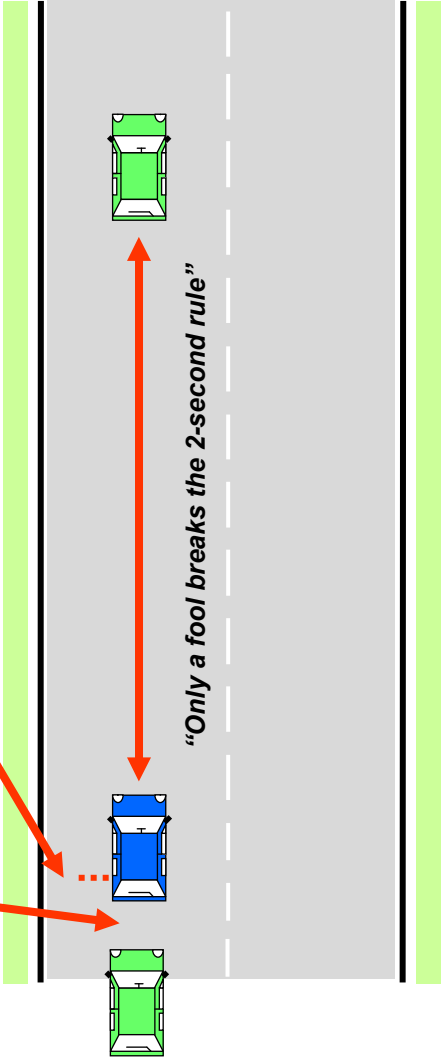
1 metre away from Kerb / Parked cars

Cyclists – treat like parked car

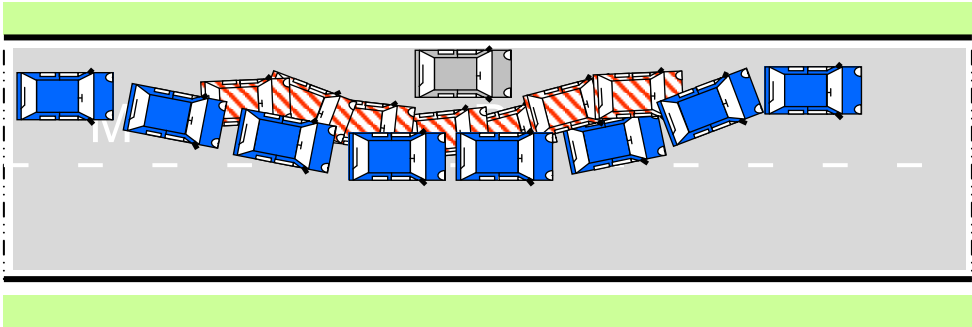
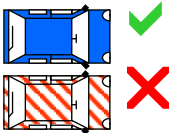
Tyres and Tarmac

In slow moving traffic

Less gap behind – increase gap in front



Shaving Vehicles

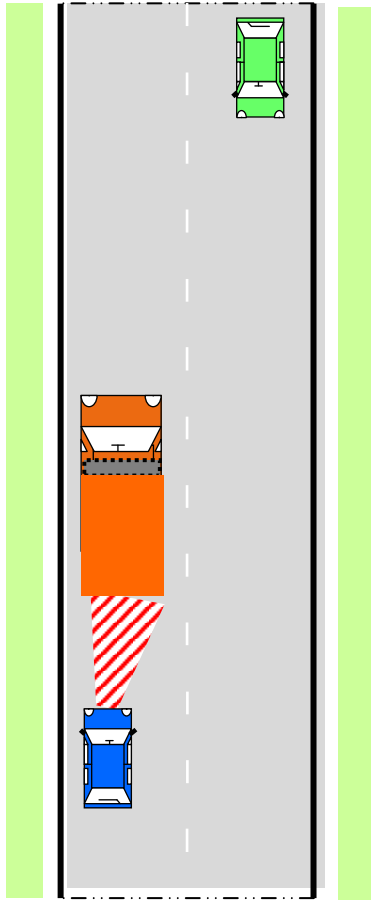
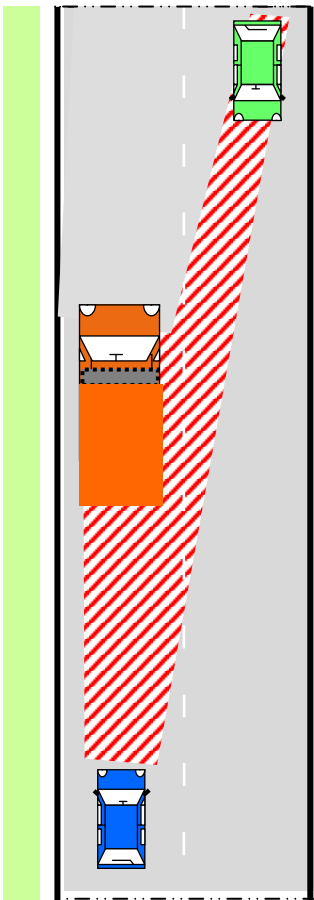
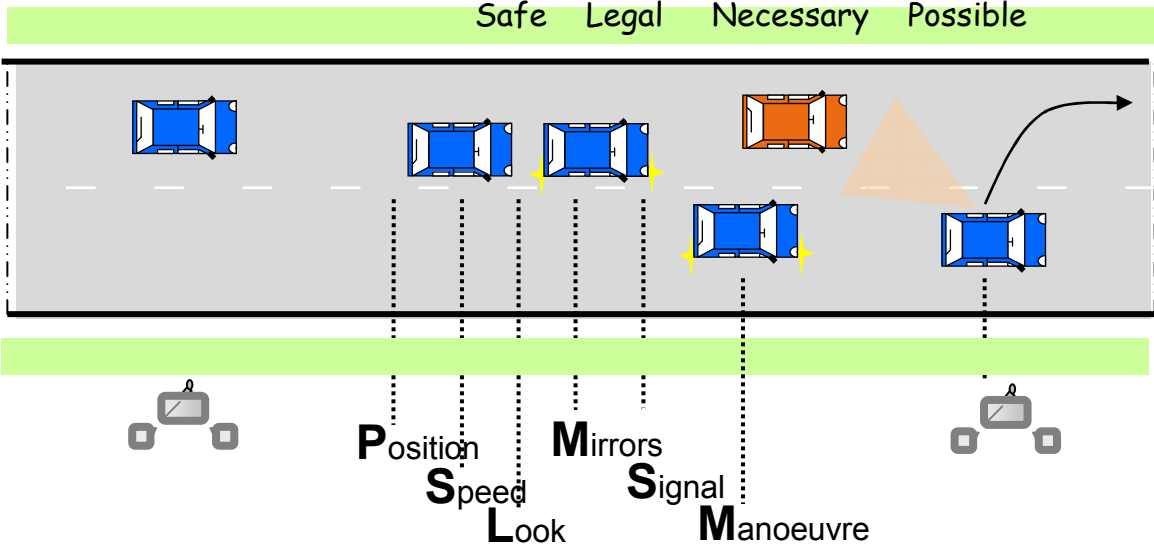


Overtaking

- Introduction
- Aim of lesson
- Last lesson / experience / any problems?
- At the end of this lesson you will be able to overtake a moving vehicle safely, making appropriate use of the car controls and with due regard for other road users.

- Dangers – closing speeds
- Safe, Legal and Necessary
 - **Safe** – Check the view ahead and behind. Check for junctions, bends, and dead ground. Is there a safe gap in front of the vehicle to slip into?
 - **Legal** – Check for road signs which may prohibit overtaking, Never overtake on approach to pedestrian crossings. Consider the speed of the vehicle you want to overtake – don't break the speed limit. Road markings.
 - **Necessary** – Is the other vehicle about to turn off? May be a better opportunity further ahead.
- Routine becomes P-S-L M-S-M
- Position** – Hold back position -best for good view, close enough to overtake
- Speed – match the speed of the target vehicle, select gear to give enough power to overtake
- Look - check ahead, behind, blind spots
- Mirrors – check main and right door mirror
- Signal – right signal
- Manoeuvre – quickly and safely to get past the target vehicle. Check main and left door mirrors, when clear of the vehicle move back safely to normal driving position

Overtaking

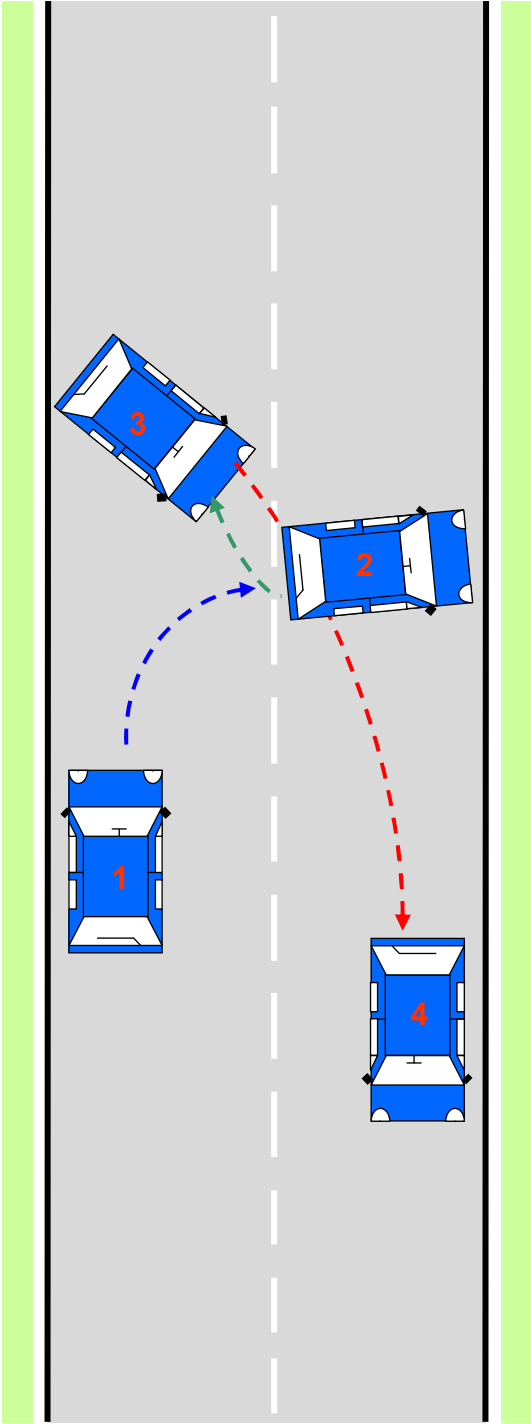


Turn in the Road

- Introduction
- Aim of lesson
- Last lesson / experience / any reversing / clutch control?
- At the end of this lesson you will be able to turn the car round in the road using forward and reverse gears, safely and under control and with due regard to other road users.

- Safe, Convenient, Legal and Possible**
 - Location, road signs, children playing, driveways, narrow road
- Co-ordination of controls**
 - Slow speed
 - Good clutch control – bite point
 - Dip clutch thickness of pound coin – down for slow – up to go
- Steering**
 - Not dry steering
 - Brisk '12 to 6 - 6 to 12'
- Observations**
 - Mainly in direction you are travelling in
 - Make all round effective checks before each section
 - Up and down the road during
 - Act upon what you see
 - Look for pedestrians – don't steer towards them
 - Stop and assess what others will do
- Accuracy**
 - Not 3 point turn
 - Not to bump or overhang kerb

Turn in the Road



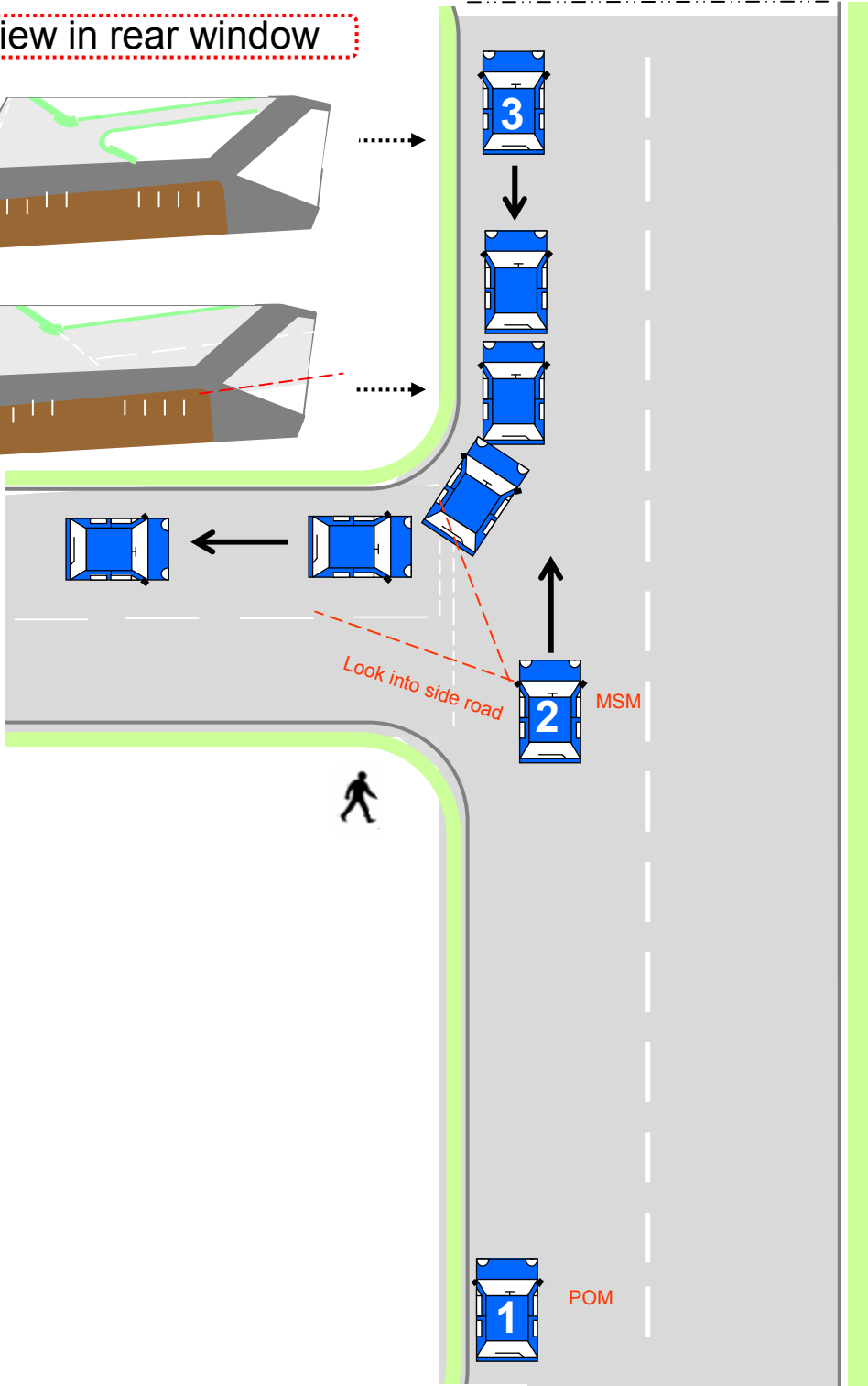
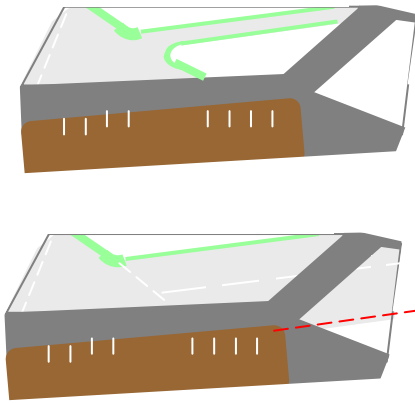
Reversing left

- Introduction
- Aim of lesson
- Last lesson / experience / reversing / clutch control at slow speed ?
- By the end of this lesson you should be able to reverse into a limited opening to the left, keeping close to the kerb, whilst keeping the car under control and with consideration for other road users

- MSM on approach**
- Safe, Legal and Convenient**
 - Assess junction
 - Children playing / Pedestrians talking
 - Timing of signal
 - Distance from corner to start
- Co-ordination of controls/vehicle control**
 - Good clutch control - dip clutch
 - Slow speed
- Steering**
 - Point of turn
- Observations**
 - Regular checks before and during manoeuvre
 - All round effective checks - Act upon what you see
 - Stop and assess what others will do including pedestrians
- Accuracy**
 - Close / keep parallel to kerb
 - Distance from corner to stop

Reversing left

View in rear window



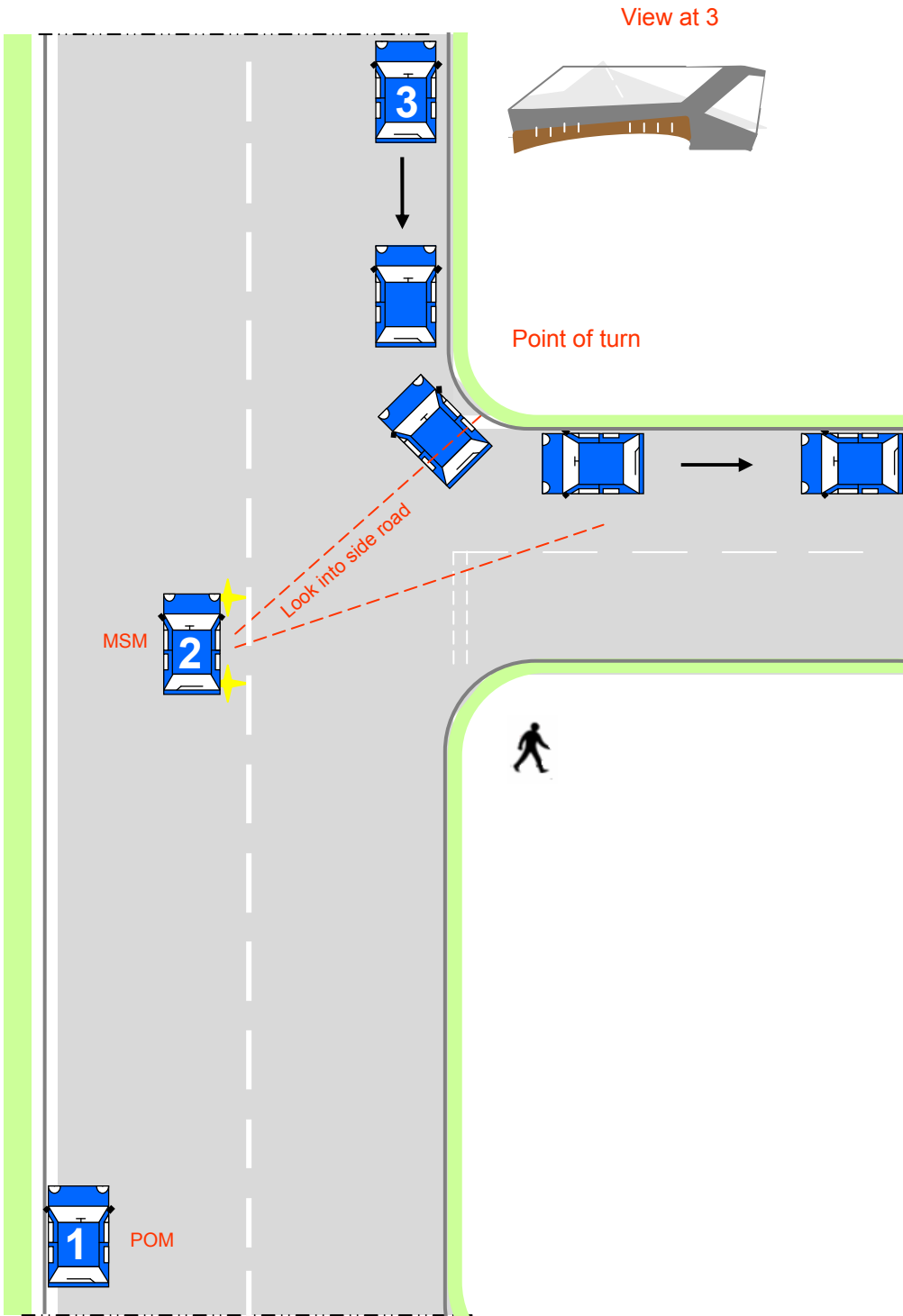
Reversing right

- Introduction
- Aim of lesson
- Last lesson / experience / reversing / clutch control at slow speed ?
- By the end of this lesson you should be able to reverse into a limited opening to the left or right, keeping close to the kerb, whilst keeping the car under control and with consideration for other road users

- MSM on approach**

- Safe, Legal and Convenient**
 - Assess junction
 - Children playing / Pedestrians talking
 - Timing of signal
 - Distance from corner to start
- Co-ordination of controls/vehicle control**
 - Good clutch control - dip clutch
 - Slow speed
- Steering**
 - Point of turn
- Observations**
 - Regular checks before and during manoeuvre
 - All round effective checks - Act upon what you see
 - Stop and assess what others will do including pedestrians
- Accuracy**
 - Close / keep parallel to kerb
 - Distance from corner to stop

Reversing right

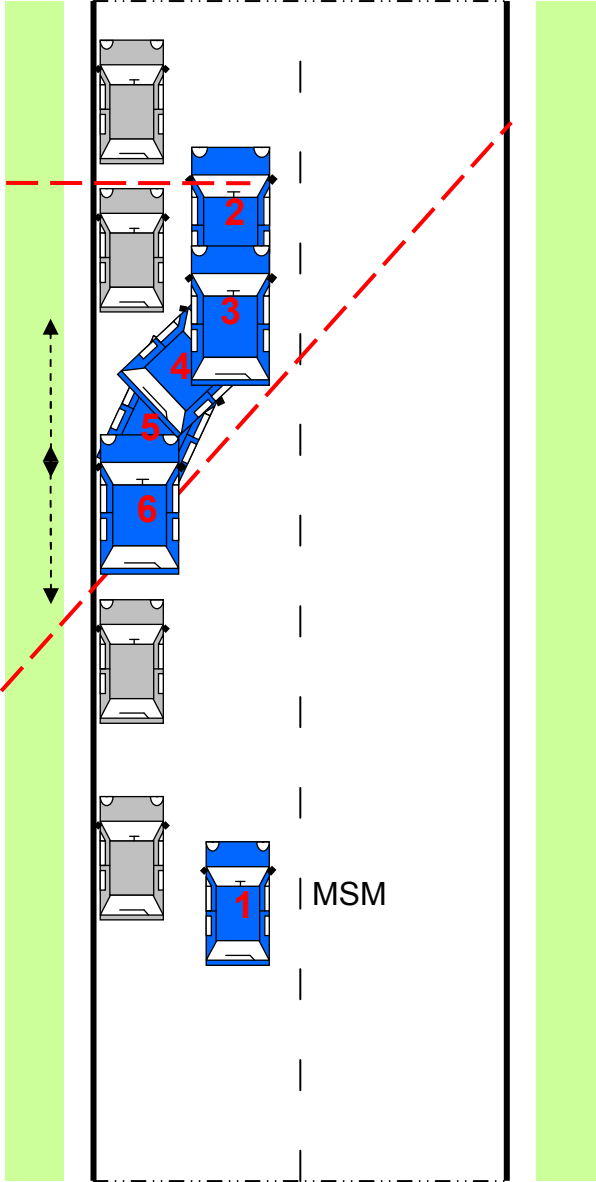
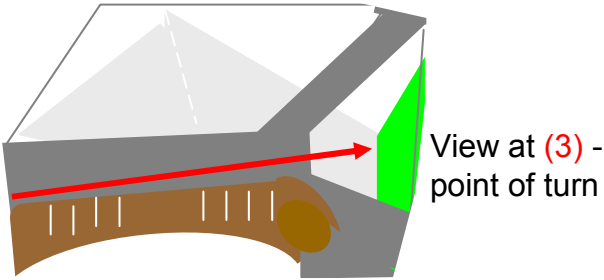


Reverse Park (Road)

- Introduction
- Aim of lesson
- Last lesson / experience / reversing?
- By the end of this lesson you should be able to reverse park a car behind another safely and accurately, whilst keeping the car under control and with consideration for other road users

- Safe, Convenient and Legal**
- MSM**
- Position to start**
- Vehicle Control**
 - Reverse gear
 - Slow speed
 - Steering
 - Points of turn
- Steering**
 - Point of turn
- Observations**
 - Mainly in the direction you are travelling
 - All round checks during
 - Assess
- Accuracy**
 - Distance from kerb

Reverse Park (Road)



Reverse Park (Bay)

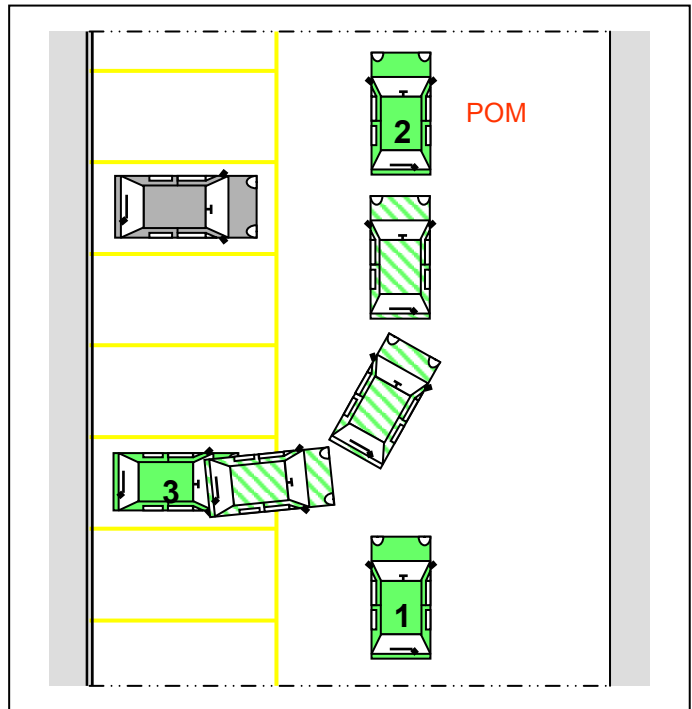
- Introduction
- Aim of lesson
- Last lesson / experience / reversing?
- By the end of this lesson you should be able to reverse park a car in to a bay safely and accurately, whilst keeping the car under control and with consideration for other road users

- Safe, Convenient and Legal**
- MSM**
- Position to start**
- Vehicle Control**
 - Reverse gear
 - Slow speed
 - Steering
 - Points of turn
- Steering**
 - Point of turn
- Observations**
 - Dangers in car parks
 - Mainly in the direction you are travelling
 - All round checks during
 - Assess
- Accuracy**
 - Within white lines
 - Parallel

Reverse Park (Bay)

Left

- MSM – Safe?
- Get car straight
- 1 x cars width & past bay
- POM
- Reverse to point of turn
- All round checks**
- Left to full lock
- Slow
- Straighten up



Right

- MSM – Safe?
- Get car straight
- 1 x cars width & past bay
- POM
- Reverse to point of turn
- All round checks**
- Left to full lock
- Slow
- Straighten up

