## 英國考車筆試雞精筆記 **DVSA Theory Test** Revision

IXAT



#### Part A: Multiple-Choice Questions

57 minutes to answer 50 multiple-choice questions.
\*Three of the questions are about a short video.

#### Part B: Hazard Perception

Watch 14 video clips.

- Feature everyday road scenes
- Contain at least one developing hazard, but one of the clips features
   2 developing hazards

	Pass mark	Points available
Multiple-choice questions	43	50
Hazard perception	44	75

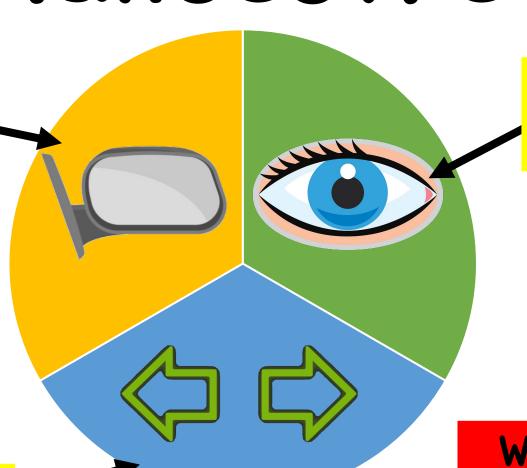






### Manoeuvre

#### <u>Mirror</u> Assess how your actions will affect traffic behind you



#### Look around Final Check



#### Windscreen pillars obstruct the view.







#### <u>Eyes off the road a second:</u> At 60mph (96km/h), your car will travel 27 metres.

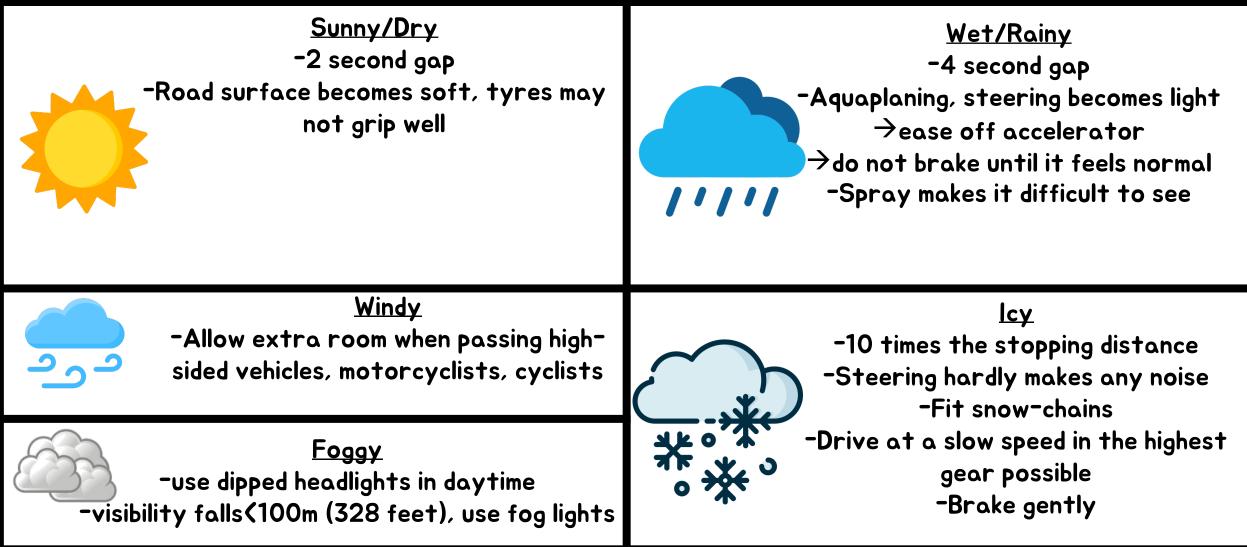


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## Weather Conditions







## Priority

<u>Blue</u>

- -Coastal Guard
- -Bomb Disposal
- -Mountain Rescue
- -Blood Transfusion



 $\bigcirc$ 





emergency call



#### Flashing Amber

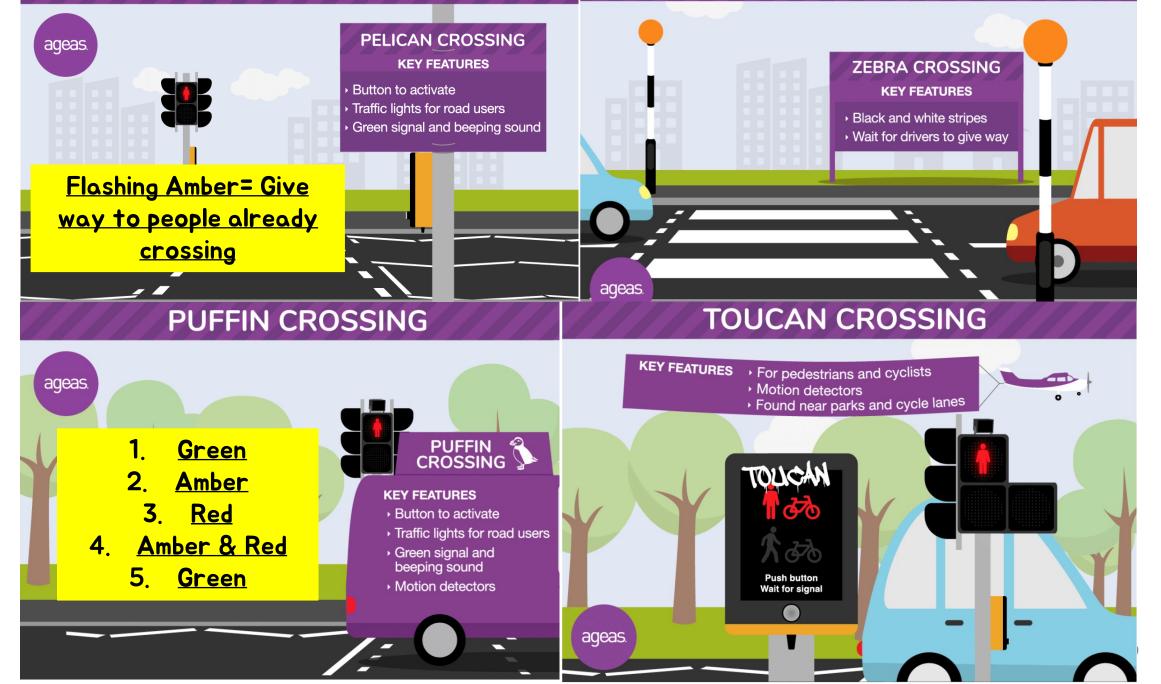
- -Slow moving vehicle
- -A powered vehicle used
- by a disabled person

(8mph, 12km/h)

#### PELICAN CROSSING

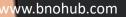
#### ZEBRA CROSSING





## Safety and your vehicle

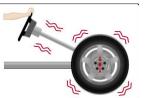
SPEED LIMIT



## Basic Maintenance



- Lights, Brakes, Steering, Exhaust System, Seat Belts, Horn, Speedometer, Wipers, Washers
- Oil and Water Level
- Brake Fluid
- •Battery Levels+
- Windscreen cold
- Tyre Pressures
- Tyre Condition



Unbalanced wheels will cause steering wheel to vibrate.

Distilled water

 $\rightarrow$  just above cell plates



Under-inflated →feel heavy →increase consumption →braking

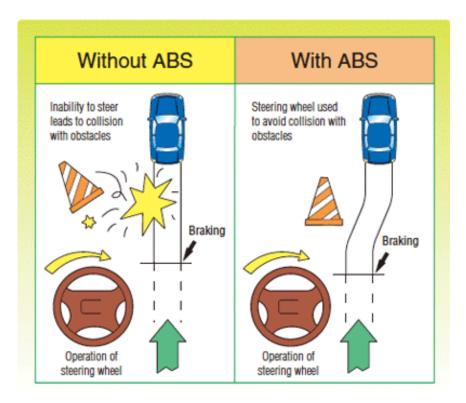


<u>Tyre Treads</u> →1.6mm deep across three quarters of the breadth of the tyre and around the entire circumference

## ABS anti lock-braking

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- Goes off when vehicle is travelling at 5-10mph (8-16km/h)
- Wheel speed sensors anticipate when a wheel is about to lock



### Seatbelt



- Under 14y old, wear a suitable restraint
- Never fit a rear facing baby seat in a seat protected by an airbag





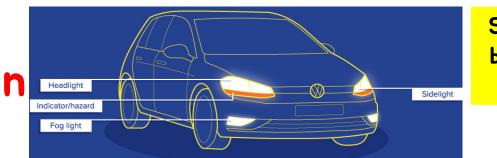
## Anti Car Theft

- Steering Lock
- Remove Keys
- Do not leave the vehicle registration document
- •Park in well-lit area
- Anti-theft alarm/immobilizer
- Steering wheel/handbrake lock
- Vehicle registration number etched on window
- Install a security coded radio
- Join a vehicle-watch scheme

## No Parking

- •X in front of a property entrance
- •X at or near a bus stop
- X where kerb has been lowered for wheelchair access
- X within 10m of a junction
- X traffic island
- X on a bend/opposite a side road
- •X level crossing, zigzag at a pedestrian cros
- •X near the brow of a hill









## Pollution

- •20% of all emissions
- $\rightarrow$ reduce speed, 70mph 15% more emission<sup>6</sup>
- than 50mph
- •Vehicle is 3 years old  $\rightarrow$  MOT test



•X horn between 11:30pm to 07:00am

In London, Ultra Low Emission Zone charge (ULEZ)



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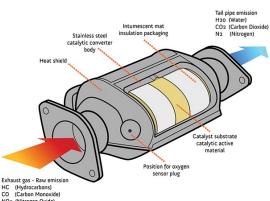
- Catalytic Converter •Device fitted to the exhaust system
- $\rightarrow$ remove toxic waste from the emission

### **Traffic Calming Measures**

- Road humps
- Road narrowing
- Chicanes +

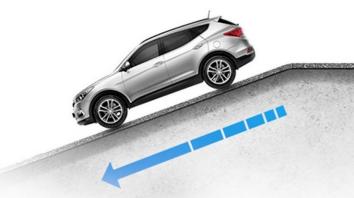
### Kick-Down =quick acceleration when needed







## Safety





→Lower gear
→Braking gently
→Do not coast=travel in neutral
→Parking: Parking brake + steering wheels towards the kerb

Affects steering and braking control.

• Stopping distance



Typical thinking, braking and stopping distances can be found in The Highway Code.

## Skidding



• Reduce risk of skidding
 → drive at low speed
 → as high gear as possible

• If skidding starts,



 $\rightarrow$ release footbrake and reapply gently  $\rightarrow$ steer smoothly in the direction of the skid

#### If drive with a ABS:

→apply footbrake firmly and rapidly
→do not release the brake pedal until you have stopped
Electronic Stability Control ESC:
ABS+Traction control system, detects risk of a skid

X work: -surface water -a loose road surface

# Hazard Awareness

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### 3. Road and Weather Conditions

### 2. Moving Hazard

1. Static Hazard

• Pedestrians, cyclists, horse riders, large vehicle drivers, slow-moving vehicles, motorcyclists, disabled people using a powered vehicle, other car drivers (large vehicles over 13metres long)

• Bends, junctions, roundabouts, parked vehicles, skips,

roadworks, traffic calming, crossings, traffic lights



## Vulnerable road users

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### Country Road

# →walk on the right hand side of the road →facing on-coming traffic

\*large group can walk on the left-hand side







#### ightarrowdog with red and white harness











#### •17-25y old

## $\rightarrow$ most likely to be involved in a road accident

# Pass Plus Scheme →ask your ADI →Call DVSA at 0115 936 6504



## Vehicle Handling

SPEED LIMIT

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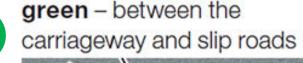
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Driving through a deep gauge,
 →use low gear
 →drive slowly
 →test brake afterwards



•When park on a two-way road, Leave sidelights on: →speed limit is >30mph →its foggy



white between lanes

amber - between the edge of the carriageway and the central reservation



red - between the hard shoulder and carriageway



yellow - at contraflow systems and roadworks





• Speed limit →70mph (112km/h)







#### A vehicle towing a trailer

 $\rightarrow$ 60mph (96km/h)

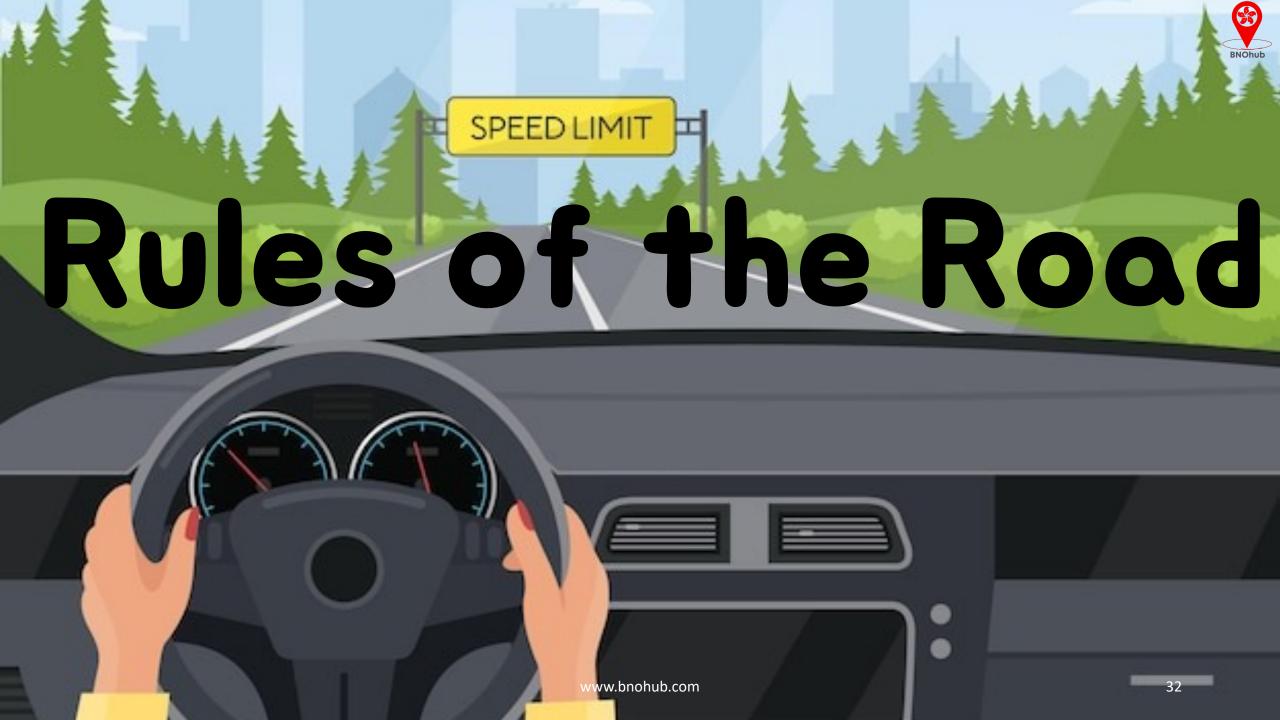
 $\rightarrow$ Not allowed to travel in the right hand lane of a 3 lane motorway

#### • Active Traffic Management (ATM)

• Traffic officers:

→stop and direct anyone on the motorway
 →responds to call made on emergency phones
 (100m intervals, location from marker post)







Driving through a deep gauge,
 →use low gear
 →drive slowly
 →test brake afterwards



•When park on a two-way road, Leave sidelights on: →speed limit is >30mph →its foggy



#### •Speed Limit

Type of vehicle	Built-up areas	Single carriageways	Dual carriageways	Motorways
Cars, motorcycles, car- derived vans* and dual- purpose vehicles	30mph	60mph	70mph	70mph
Cars, motorcycles, car- derived vans and dual- purpose vehicles towing caravans or trailers	30mph	50mph	60mph	60mph

#### •Streetlights =30mph (48km/h) speed limit



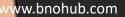
# Level crossing • Warning lights on: Stop

#### •Red lights keep flashing: Wait



# Road and Traffic Signs

SPEED LIMIT

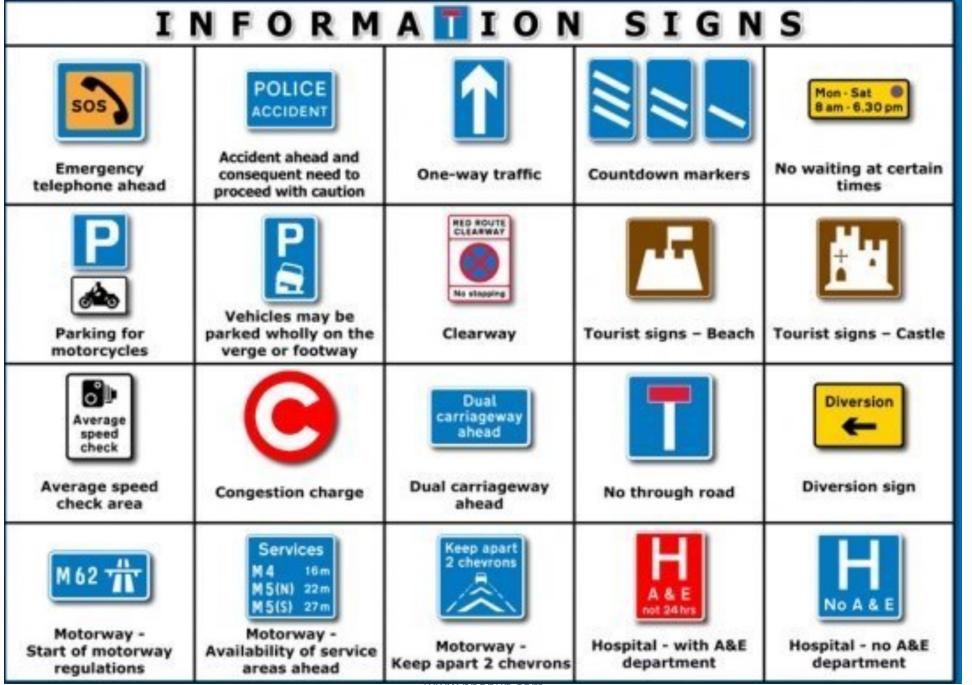




# Road Signs

- •Circular=Orders
- Blue Circles=Instruction
- •Red Rings=MUST NOT do
- Triangular=Warning
- Rectangular=Information
- •Octagonal=STOP
- •Brown=Tourist Info





R

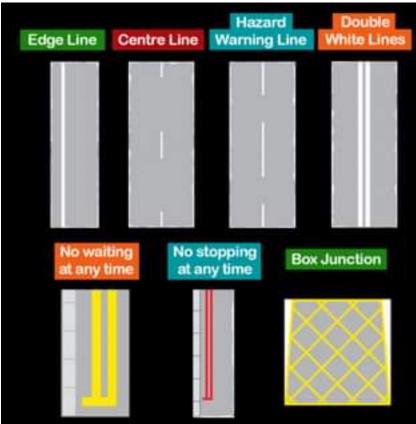
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0	RDER	SIGN	S	L .			
			STOP	(23)	30	6-64	STOP
No entry	National speed limit	No U-turn	Stop Police	No goods vehicle over shown weight	Maximum speed limit	No vehicles wider than 6' 6"	Stop
No motor vehicles	No left turn	Riding of bicycles prohibited	No stopping on main carriageway	Keep left	40 Minimum speed limit	Shared route for pedal cycles and pedestrians only	Give way
No pedestrians allowed	<b>No overtaking</b> permitted	No vehicles Prohibited	No solo motorcycles				

W 🛦	RNIN	GSIC	G N S					
Crossroads	Double bend	Opening or swing bridge	School	L	3			BNOhub
Traffic signals ahead	Junction on a bend	A Hump bridge	Wild animals	Rour	ndabout	Slippery road	Frail pedestrians likely to cross	Loose chippings on road
Side road	Two-way traffic	Uneven road	Level crossing with a gate or barrier		Read n		iow your Tra	<mark>ffic Signs</mark>
Traffic merges from left	Road narrows on both sides	Zebra crossing	Level crossing without a gate or barrier	www.b	nohub.com	and the H	lighway Code	40

## Lines along the middle of the road

- Short broken white lines
- →divide lanes
- •Longer broken white lines
- →hazard warning
- Double white lines
- $\rightarrow$  MUST NOT cross
- White diagonal stripes/chevrons → separates lanes of traffic → protect traffic turning right







## Traffic lights

- 1. Red=Stop and Wait behind the stop line
- 2. Red & Amber=Stop and Wait
- 3. Green=Go, dont proceed if exit is blocked
- 4. Amber=Stop unless you have crossed 5. Red
  - Stop







Traffic approaching from the front

Traffic approaching from both front and behind

Traffic approaching from behind

To beckon traffic on









From the side

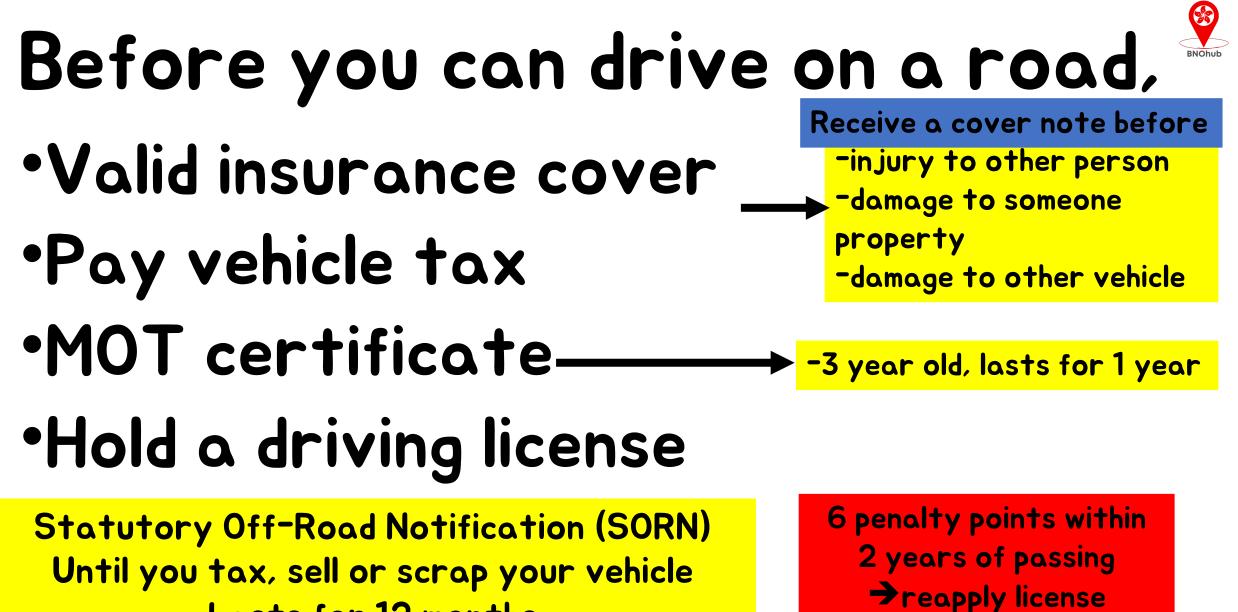
From the front

From behind\*

## Essential Documents

SPEED LIMIT

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→retake exam

# Incidents, accidents

SPEED LIMIT

## Breakdown

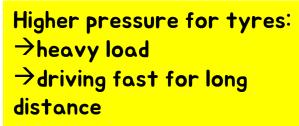


### Emergency on a motorway

- $\rightarrow$ Phone number
- $\rightarrow$ Your details and the vehicle
- $\rightarrow$ Belong to motoring organization

### • Tyre bursts

- $\rightarrow$ hold steering wheel firmly
- $\rightarrow$  pull up slowly
- Warning triangle
- →at least 45metress (147 feet) behind your venicle



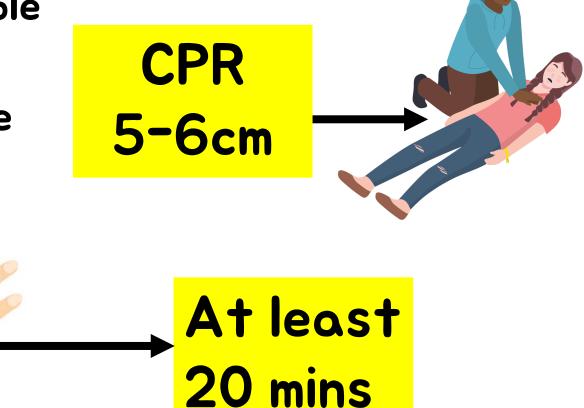




## First Aid



- Call 999 or 112
- Keep injured warm and comfortable
- Keep injured calm
- Make sure they are not left alone



- Danger
- Response
- Airway
- Breathing
- Circulation

# Toughest Questions

SPEED LIMIT

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### At a puffin crossing, which colour follows the green signal?\*

- Steady red
- Flashing amber
- Steady amber ✓

### Flashing green

You are travelling at 50 mph on a good, dry road. What is your typical overall stopping distance?\*

36 metres (118 feet)	Speed (mph)	Factor	Overall stopping distance (ft) (speed x factor)
0 00 metres (110 reet)	20	2	40
💿 53 metres (175 feet) 🗸 🛛	30	2.5	75
	40	3	120
75 metres (245 feet)	50	3.5	175
	60	4	240
96 metres (315 feet)	70	4.5	315

You are on a good, dry, road surface. Your brakes and tyres are good. What is the typical overall stopping distance at 40 mph?\*

- 23 metres (75 feet)
- 36 metres (118 feet)
- 53 metres (175 feet)
- 96 metres (315 feet)

### You are driving towards this level crossing. What would be the first warning of an approaching train?\*



- O Both half barriers down
- A steady amber light ✓
- One half barrier down
- Twin flashing red lights



### 🗹 Show hint

The steady amber light will be followed by twin flashing red lights that mean you must stop. An alarm will also sound to alert you to the fact that a train is approaching.

### What does this sign mean?\*

- Contraflow pedal cycle lane
- With-flow pedal cycle lane  $\bigcirc$ ~
- Pedal cycles and buses only
- No pedal cycles or buses



'A vehicle t

### Answer

30 metres per second (about 100 feet)

'The survival rate of a pedestrian involved in a collision at 20mph is:'



Answer

95%

'Powered vehicles used by disabled people have a maximum speed of:'

#### Answer

8mph

	Creek
travalling at 70mph aguara about.	Spee
travelling at 70mph covers about:'	

Speed	eed Metres per		Example of making a calculation for 70mph		
	second				
10mph	4.5m	(15ft)			
20mph	9.0m	(30ft)	70 mph ÷ 2	(35 ÷ 10	35 – 3·5
30mph	13.5m	(45ft)	= 35	= 3.5)	= 31.5 mps
40mph	18.0m	(60ft)		1 1 1 1	
50mph	22.5m	(74ft)	This calculation w	ill get you to wit	thin 15cm (or so) and can be
60mph	27.0m	(89ft)	applied to any giv	en figure. It's s	o simple it can be done en-route!
70mph	31.5m	(104ft)			
80mph	36.0m	(119ft)	Put another way;	45% of your sp	eed in mph = mps. (45% of
90mph	40.5m	(133ft)	100mph = 45mps)		
100mph	45.0m	(148ft)			



#### Answer

When you are in a one-way street

When the vehicle in front is signalling to turn right

In slow-moving traffic queues when traffic in the right-hand lane is moving more slowly

'The survival rate of a pedestrian involved in a collision at 30mph is:'

#### Answer

50%

'Accidents on monotonous roads (for example motorways) caused by fatigue accounts for:'

#### Answer

15-20% of accidents



Answer

5%

'Vehicles travelling at 70 mph use up to:'

#### Answer

30% more fuel than vehicles travelling at 50mph

'Where can you find reflective amber studs on a motorway?'

Answer

On the right-hand edge of the road

2. In which THREE of these situations may you overtake another vehicle on the left?

- A) When you are in a one-way street
   B) When approaching a motorway slip
   road where you will be turning off
- C) When the vehicle in front is signalling to turn right

D) When a slower vehicle is travelling in the right-hand lane of a dual carriageway
E) In slow-moving traffic queues when traffic in the right-hand lane is moving more slowly

........

4. Areas reserved for trams may have: Mark three answers

A) metal studs around them
B) white line markings
C) zigzag markings
D) a different coloured surface
E) yellow hatch markings
F) a different surface texture

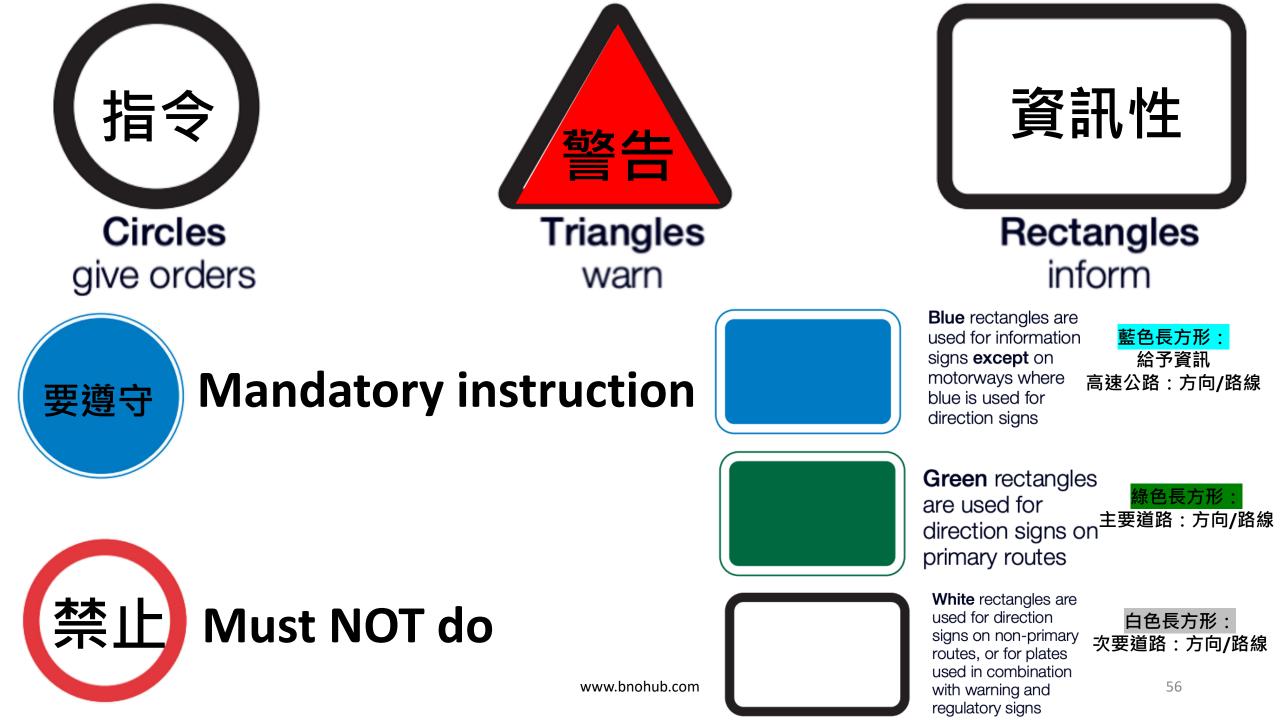
3. A cycle lane is marked by a solid white line. You must not drive or park in it:

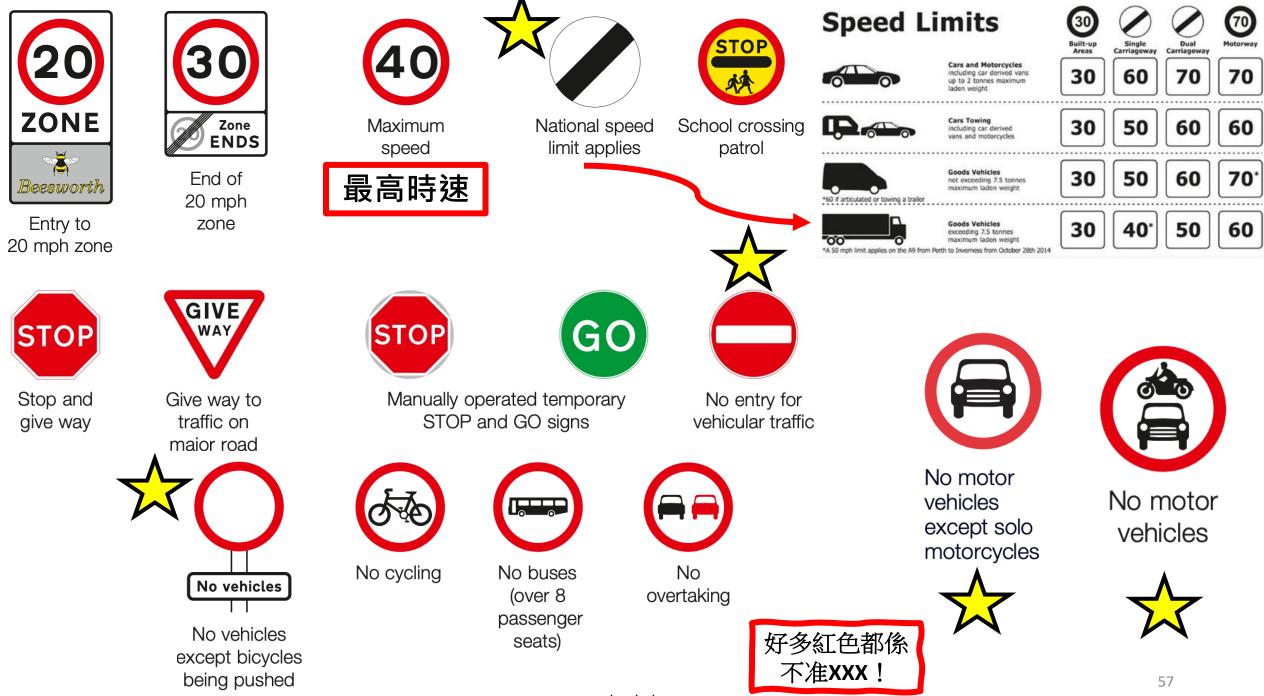
A) at any time

- B) during the rush hour
- C) if a cyclist is using it
- D) during its period of operation

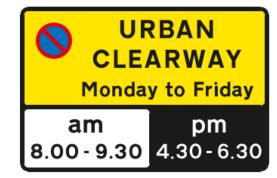












No stopping during times shown except for as long as necessary to set down or pick up passengers Controlled ZONE Mon - Fri 8.30 am - 6.30 pm Saturday 8.30 am - 1.30 pm Entrance to

controlled

narkina zono



No stopping during period indicated except for buses

No stopping

(Clearway)

唔准停



Parking restricted to permit holders





No vehicles over maximum gross weight shown (in tonnes)





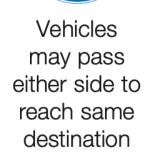
Turn left ahead

(right if symbol

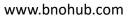
reversed)

Ahead only

Turn left (right if symbol reversed) Keep left (right if symbol reversed)







route



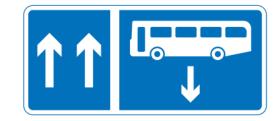
only

Only Trams only TRAMWAY

Pedestrian crossing point over tramway One-way traffic (note: compare circular 'Ahead only' sign) Ahead only



With-flow bus and cycle lane



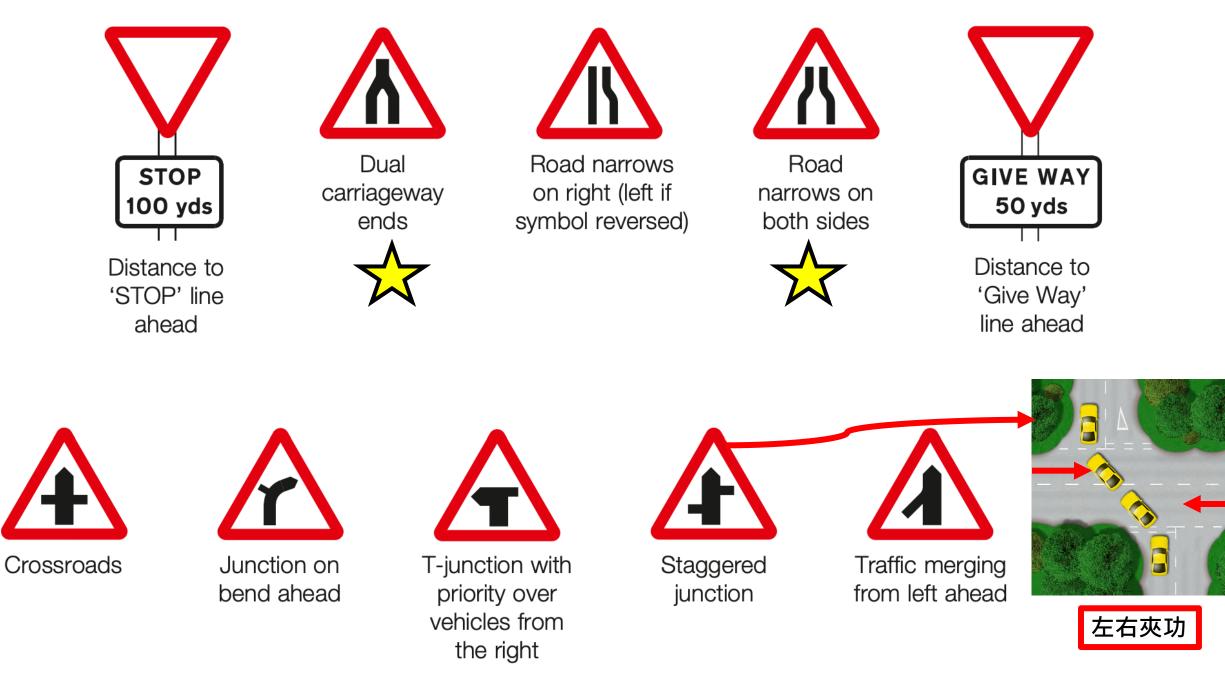
Contra-flow bus lane



With-flow pedal cycle lane



With-flow=同方向





Double bend first

to left (symbol

may be reversed)



Bend to right

(or left if symbol

reversed)

Roundabout

Mini-roundabout (roundabout circulation give way to vehicles from the immediate right)

迷你



Uneven road



Plate below some signs



Two-way traffic crosses one-way road



Two-way traffic straight ahead



¥,

Low-flying aircraft or sudden aircraft noise



Falling or fallen rocks



Traffic signals

not in use



Traffic signals



Slippery road





Steep hill downwards

Steep hill upwards

Gradients may be shown as a ratio i.e. 20% = 1.5



Tunnel ahead



Trams crossing ahead

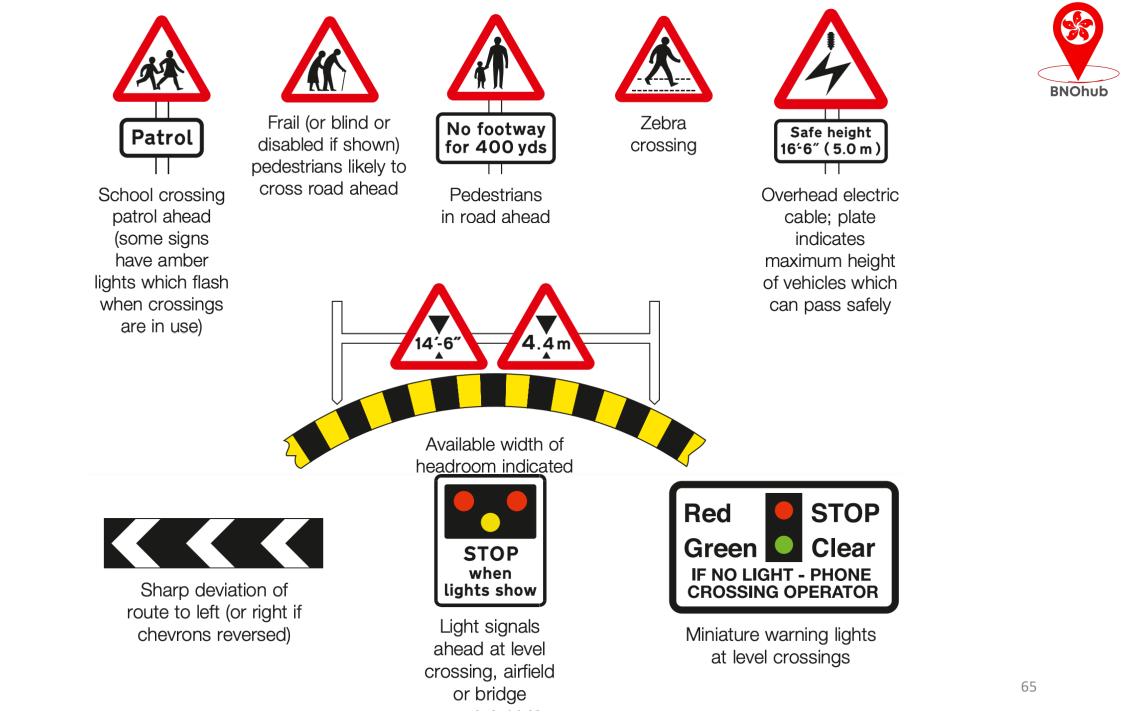


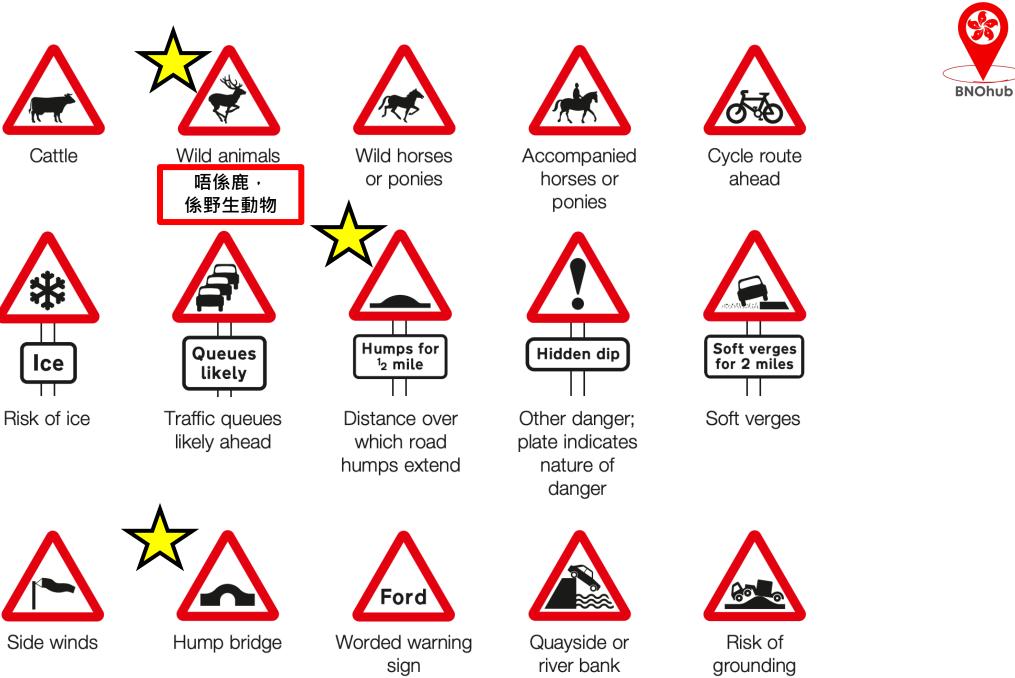
Level crossing with barrier or gate ahead



Level crossing without barrier or gate ahead

Level crossing without barrier





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Cattle

lce



The panel with the inclined arrow indicates the destinations which can be reached by leaving the motorway at the next junction

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On approaches to junctions

Lampton Axtley A 11 1 mile
At the junction
A 46 The SOUTH Nottingham 17 Leicester 32

Route confirmatory sign after junction



On approaches to junctions



On approach to a junction in Wales (bilingual)



Picnic site



Tourist attraction



Ancient monument in the care of English Heritage



Direction to camping and caravan site



Route for pedal cycles forming part of a network



Recommended route for pedal cycles to place shown



Direction to a car park



Advisory route for lorries



Route for pedestrians





Entrance to congestion charging zone



End of controlled parking zone



Low bridge

Advance warning of restriction or prohibition ahead



Parking place for solo motorcycles



With-flow bus lane ahead which pedal cycles and taxis may also use



Lane designated for use by high occupancy vehicles (HOV) see rule 142



Vehicles permitted to use an HOV lane ahead





Vehicles may be parked partially on the verge or footway Vehicles may be parked wholly on the verge or footway





Vehicles may be parked partially on the verge or footway during the times shown





End of verge or footway parking



Vehicles may be parked partially on the footway in marked bays only



End of motorway



Traffic on the main carriageway coming from right has priority over joining traffic



Start of motorway and point from which motorway regulations apply



Additional traffic joining from left ahead. Traffic on main carriageway has priority over joining traffic from right hand lane of slip road

Except buses

Appropriate traffic lanes at junction ahead



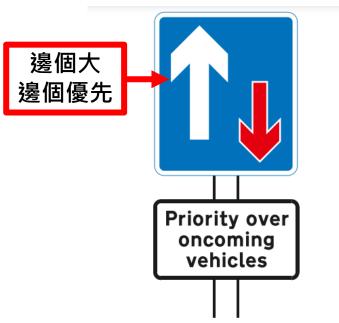
Traffic in right hand lane of slip road joining the main carriageway has priority over left hand lane 12



'Countdown' markers at exit from motorway (each bar represents 100 yards to the exit). Green-backed markers may be used on primary routes and white-backed markers with black bars on other routes. At approaches to concealed level crossings white-backed markers with red bars may be used. Although these will be erected at equal distances the bars do not represent 100 yard intervals.



Motorway service area sign showing the operator's name



Traffic has priority over oncoming vehicles



Recommended route for pedal cycles



Hospital ahead with Accident and Emergency facilities



Tourist information point



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No through road for vehicles



Home Zone Entry



Area in which cameras are used to enforce traffic regulations



Bus lane on road at junction ahead



Road works



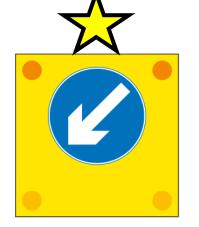
Loose chippings



Temporary hazard at road works



Temporary lane closure (the number and position of arrows and red bars may be varied according to lanes open and closed)



Slow-moving or stationary works vehicle blocking a traffic lane. Pass in the direction shown by the arrow.



Mandatory speed limit ahead



Road works 1 mile ahead



End of road works and any temporary restrictions including speed limits **BNOhub** 







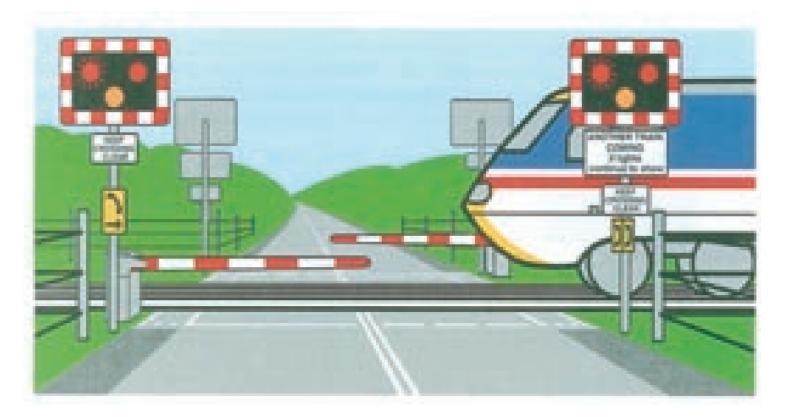




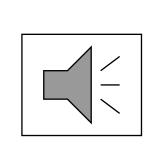
Signs used on the back of slow-moving or stationary vehicles warning of a lane closed ahead by a works vehicle. There are no cones on the road. Lane restrictions at road works ahead

One lane crossover at contraflow road works

### Automatic half-barrier level crossings



Amber lights and audible warnings followed by flashing red lights warn that a train is approaching and that the barriers are about to come down. You must **STOP**. The red lights flash all the time the barriers are down, but the audible warning might stop. If another train is approaching, the barriers will stay down; the lights will continue to flash and, if there is an audible warning, the sound will change.



**STOP** 



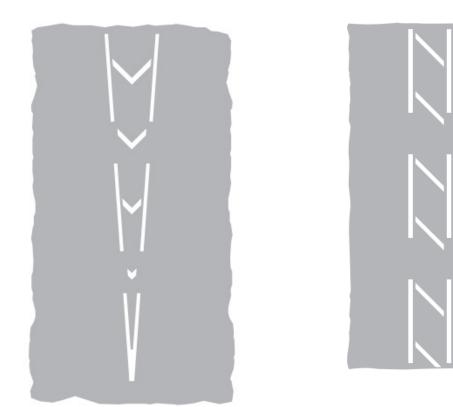


Centre line on a single carriageway road

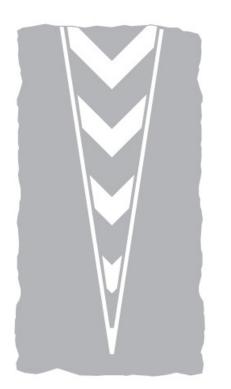
Lane line separating traffic travelling in the same direction (single or dual carriageway road)

#### Hazard warning line

(replaces a centre line or a lane line). An upright sign may indicate the nature of the hazard, such as a bend. The marking is used also on the approach to a junction

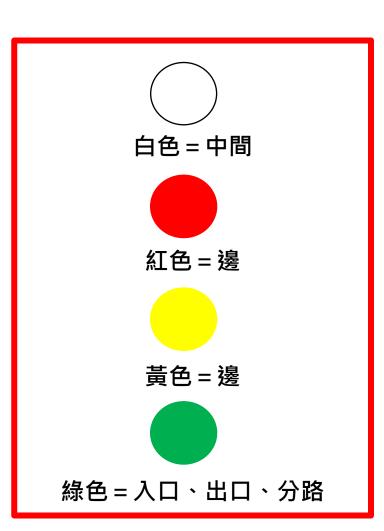


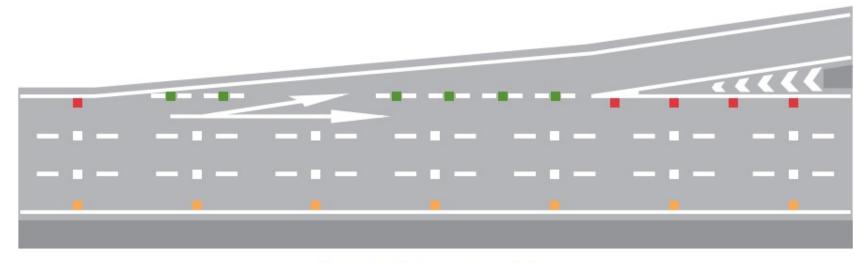
Part of the carriageway where traffic passes in the same direction on either side of the chevron marking. Vehicles should not enter the area unless safe to do so. This marking is likely to be found in one-way streets with central islands and where an exit lane leaves at a junction Diagonal white lines (hatched markings) bounded by broken lines may be used in the centre of the road to separate opposing flows of traffic. They are often provided at junctions to protect traffic turning right. They may also be used on the approach to a central traffic island or the start of a dual carriageway. Hatched markings with a single, broken boundary line may be used at the edge of the road or next to the central reservation of a dual carriageway: the diagonal lines always slope towards the direction of travel. You should not enter any hatched area bounded by a broken line unless it is safe to do so



Part of the carriageway where traffic passes in the same direction on either side of the chevron marking. The continuous boundary line means that vehicles must not enter the area except in an emergency. This marking s used where slip roads eave and join motorways and many dual carriageway roads. It is also used for segregated left-turn lanes at roundabouts

## **Reflecting road studs**





#### Central reservation

Coloured road studs help drivers at night, especially on wet roads, or in poor visibility. White studs mark traffic lanes or the centre of the road. The left-hand side of the carriageway is marked by red studs, and the edge of the central reservation of a motorway or dual carriageway road by amber studs. Green studs are used to mark lay-bys and the entrances to, and exits from, slip roads.





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#### What is a Red Route?



A road on which you cannot park

A road on which you cannot stop or park

A road on which you cannot load or unload

A road on which you cannot stop, park, load or unload



#### What does this sign mean?



**Bus stop ahead** 

Only buses are allowed on this road

**Bus lane ahead** 

Buses are not allowed on this road

#### Where will you find this sign?





☐ In an area where you cannot load or unload

☐ In an area where you cannot park

In an area where you cannot stop, park, load, or unload

In an area where you cannot stop or park



## You see this line across the road at the entrance to a roundabout. What does it mean

Stop at the line
Traffic from the left has right of way
Give way to traffic from the right

☐ You have right of way



### What's the reason for the yellow crisscross lines painted on the road here?



**Zebra Crossing** 

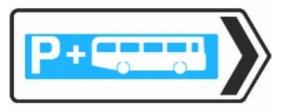
**To mark the entrance lane to a car park** 

To prevent queuing traffic from blocking the junction on the left

To mark out an area for trams only



#### What does this sign mean?



Direction to bus and coach park

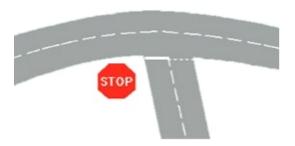
□ No parking for buses or coaches

Direction to park-and-ride car park

Parking for buses



# At this junction, there's a 'stop' sign and a solid white line on the road surface. Why is there a 'stop' sign here?



There are hazard warning lines in the centre of the road

☐ It's a busy junction

□ Visibility along the major road is restricted

Speed on the major road is derestricted



