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CHAPTER 1

INTRODUCTION TO ROAD SAFETY

Rahul: Hi Aditi! How are you?

Aditi (in a subdued tone): I am good.

Rahul: You look a little disturbed what's the matter?

Aditi: I was reading the newspaper today morning and my eyes fell on the news about a car accident on the highway. A family of four met with a tragic road accident and got seriously injured.

Rahul: It's really sad, I also read about it. The accident occurred due to over speeding. Moreover, none of the family members were wearing the seat belt.

Aditi: I fail to understand why people treat the issue of safety lightly whereas Safety should be their first priority.

Rahul: Yes, I agree with you.

Aditi: Road safety is important for all road users. It is really disheartening to know that every year more than one million people are injured in road accidents in our country. In fact, road traffic injuries are leading to more deaths as compared to diseases and illness, this is something alarming.

Facts to Know:

- **The First Accident:-** In 1771 the first accident involving a motor vehicle took place in Paris when Cugnot's steam tractor hit a low wall in the grounds of the Paris arsenal.



- **The First Act: -** The Locomotives and Highway Act was the first piece of British motoring legislation. This was also known as the Red Flag Act of 1865.



Spot the hazards

Circle each of the dangerous actions of pedestrians on or near the road.



CHAPTER 2

KNOW YOUR ROADS

Aditi: Hey Sameer ! I saw you riding your bike in the morning. I even waved at you but you were trying to overtake a car.

Sameer: Oh really ! Actually I was in a hurry to reach home therefore, I overtook that car.

Aditi: Didn't you notice the *no overtaking sign* on the road?

Sameer: Yes, I did but I thought it was a distorted line so I took liberty.

Aditi ; Sameer, you need to understand that orderliness should be maintained on the roads because you are responsible not only for your own safety but others as well. **Rules have to be followed in letter and spirit.**

Okay, let me apprise you with the importance of markings on the road.

Road Markings are there to discipline the motorists and pedestrians while on road.

These can be divided into two categories

Carriageway markings: Markings made on road

Object markings: Markings made on objects such as trees, stones, etc.

Colour of the road markings: Specific colours are used for road markings.

- **White** for all carriageway markings except for parking restrictions
- **Yellow** for parking restrictions and continuous centre or barrier line
- **Alternate Black & White** for kerb and object markings

Sameer : Can you throw some light on kerb marking ?

Aditi: Kerb markings are **painted with black and white strips or chequered black & white designs.** Guard rails, guard stones, drums, trees are marked with solid white colour. Objects in the carriageway are marked by alternate black and white strips sloping down at 45° angle towards the side of obstruction on which traffic passes.

- Broken White Lines





- Solid White Lines



- Single Solid Yellow Line

- Double Solid Yellow Line





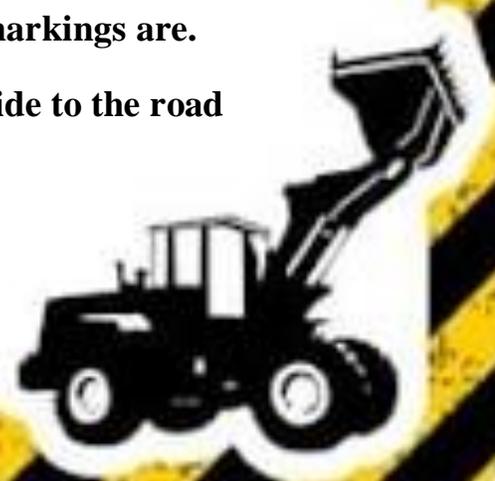
- Stop Line

INTERSECTIONAL MARKINGS

- Stop Lines
- Give way Lines
- Pedestrian Crossings
- Cyclist Crossings
- Marking on approach to Intersection
- Marking on Speed Change Lane
- Directional arrows
- Protected Right Turn lanes
- Marking on Rotaries
- Box Markings
- Continuity Lines

Aditi: So, I hope you realize now how important road markings are.

Sameer: Yes, now I understand Road Signs, are the guide to the road users and hence they are the languages of the road.



Facts to Know:

The first road markings in history date back to ancient Rome, such markings were little more than milestones: vertical stones showing destinations and distance.

First road markings in history



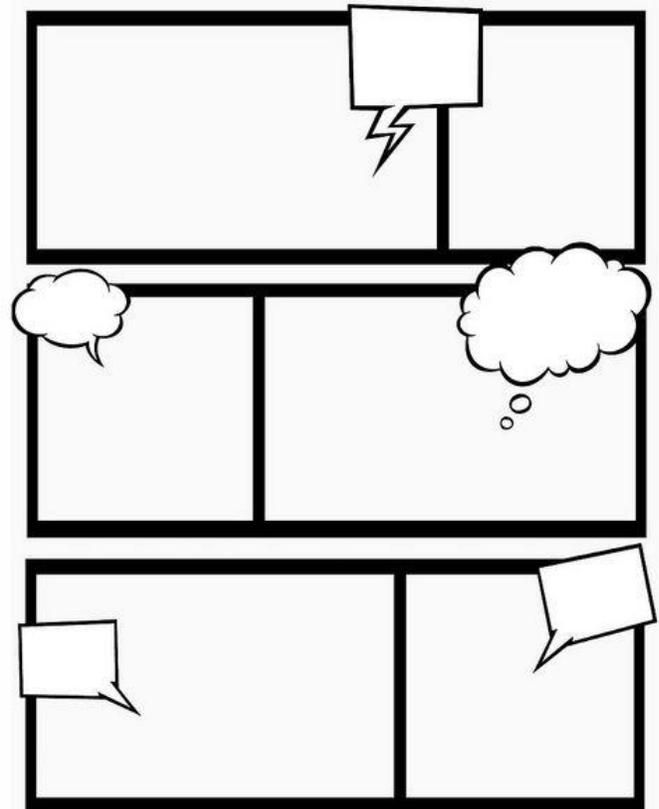
ACTIVITY 2

To promote safety on roads design a comic strip, using your innovative and creative skills. Make it colorful, and eye catching. It should also deliver important message about how to stay safe when you will be out on the road after lockdown.

Click pictures of your beautiful work and mail them on roadsafetysentinels@gmail.com. The best comic strip will be published in Road safety Manual.



**CREATE YOUR OWN
COMIC STRIP!**



CHAPTER 3

KNOW YOUR ROAD SIGNS

Mother: I am tired with this monotonous work all around the week with no possibility of a break. How i wish to get a momentary respite.

Father :Hmm... Spring is around the corner and this year is full of long weekends. Let's Excuse ourselves from the city buzz and plan a fun day out!

Aditi & Rohan : Yes papa what a great idea !

Mother: Seems a nice idea!

Father : Let's go on a long drive to Sariska Wildlife Sanctuary.

Aditi & Rohan: Yipee! Mission packing....

Next morning all are ready with their backpacks and the long drive begins....

Father : Aditi & Rohan stop playing games on your cell phone. Aditi during our last trip we apprised you with the significance of road signs and why they carry so much of importance. Now you let Rohan know about the same during this journey.

Aditi: Okay papa.

Aditi (to Rohan): Now Rohan you should know that signals play an important role in smooth movement of traffic. Road signals are to be followed systematically, otherwise it may cause accidents.

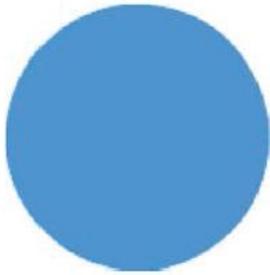
Traffic Signs :Traffic signs are divided into three main categories.



- (i) Mandatory/regulatory signs
- (ii) Cautionary signs
- (iii) Information signs



Red circle instructs what should not be done.



Blue circle instructs what should be done.

Rohan: Yes I understand. Please let me know about the various signs we come across.



(Rohan comes across a road sign and asks his sister about it.)

Rohan: Hey, sis what does this sign indicate?

Aditi: This sign shows that there is a bridge ahead.

Rohan: Sister, I am familiar with these signs, one is Pedestrian Crossing and the other shows that there is a School Ahead, isn't it ? It is near our school also.

Aditi: Yes, you are right Rohan.

Now I will add to your knowledge some more road signs. You make a note of



them in your journal. (Aditi now gives information about all the other road signs)

Mother : Aditi how nicely you have made Rohan understand. Now I would ask both of you a question. Have you observed that some symbols are in Circle, some in Triangle and some are in Rectangle. Why is it so?

Aditi: Oh mom, I never thought of it.

Rohan: Even I don't know, nobody told me about it.

Mother : While driving and observing traffic signs, We see the outline or shapes of traffic signs and they are universal and generally 3 basic geometrical shapes (Circle, Triangle, Rectangle) are used. You saw a circle with Red outline and white background. Now the question is, what does circle mean? The sign is Obligatory signs, or that is you *MUST NOT* do that. To make it more clear, let's talk about what could be inside that circle, It could be speed limit, no entry, no parking, no overtaking. If you do that it's illegal or a violation of law and could be dangerous.

Let's discuss the circle but with a different color, where the Circle outline is white and the background is blue. What does it mean? It means that it's a mandatory law and you *MUST* follow it like, minimum speed limit, follow



Circles
give orders



Triangles
warn

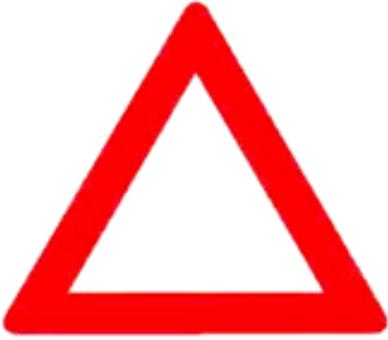


Rectangles
inform

direction.

Now let's talk about triangles.





Triangle is also used in two different ways.

1) Upright

2) Inverted

Upright means it's a WARNING or HAZARD SIGN. You will see the sign from far behind and should slow down and it warns you that there is a hazard ahead. Inside the triangle there could be anything like right or left band, intersections, traffic lights, animal crossings, pedestrians crossings, humps, roundabout, max. allowable height, slippery surface, stone falling areas and many other hazards.

Triangle inverted means it's a GIVE WAY SIGN. Priority is for other vehicles, you can join the traffic unless clear.

Rohan:Papa now you have to slow down the speed as there is a sign of the Inverted Triangle approaching ahead.

Father(with a smile) : Yes dear I will do.

Mother: The next shape you can see is RECTANGLE. You may see it in different colour. Blue, Brown, Green. Anything in the rectangle is information for the drivers.

Facts to know:

Stop signs originated in Michigan in 1915.The first ones had black lettering on



a white background. As stop signs became more widespread, a committee supported by the American Association of State Highway Officials (AASHO) met in 1922 to standardize them and selected the octagonal shape that has been used ever since.

Aditi: Papa why have you stopped the car ?

Father: We have reached our destination dear. You all were so engrossed in your conversation that you didn't realise the distance of the journey.

Rohan: Hurray...



IDENTIFY THE FOLLOWING ROAD SIGNS:



CHAPTER 4

ROAD SAFETY HABITS

Rohan: Mom now I am much aware of the road signs and can manage to go on my own to board my school bus.

Mother: It's good that you have become aware but my child knowing the road signs is not sufficient. You need to inculcate road safety habits as well. This is not only for Rohan but for Aditi you as well.

While using the road you need to adopt these safe road practices:

1. Stop, Look, And Cross

Stop: to see the traffic.

Look: in all directions

Listen: to a horn or engine sound to know if a vehicle is approaching.

Cross: when it is safe to do so.

2. Don't Run On Roads

You may not always have patience and may tend to run across the street to get to the other side. Never run across or along the road.

3. Always Use Sidewalks

Use the sidewalk when walking on the road. Whether it is a busy street or not, use the sidewalk.

4. Crossroads and Pedestrian Crossing



Do not sprint across the street, anywhere you like. That can be dangerous as passing vehicles do not slow down unless there is a signal or a crossroad. Cross only at an intersection and use the pedestrian crossing.

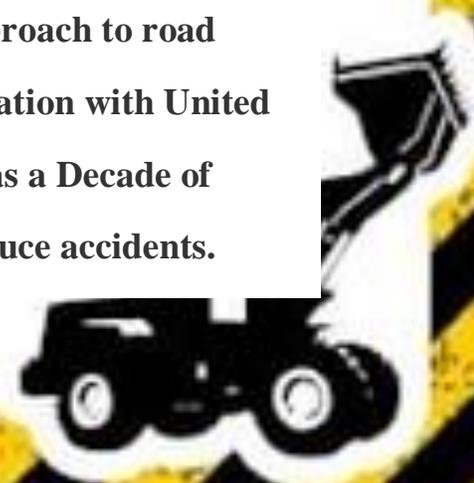
5. Never Cross Road At Bends

Bends are the blind spots for motorists. When you cross at a bend, you do not give the vehicle drivers enough time to spot you and stop the car. so never cross at a bend as that can increase the chances of getting hurt.

6. Always Get Out At The Curb Side

When you take the school bus every day, remember

- to start early and be on time to avoid running for the bus,
- stand in the queue when boarding and alighting the bus,
- always get off the curb side when getting off a car or the bus to prevent being an obstruction to the other vehicles on the road.
- **Do You Know: WHO** endorses a comprehensive approach to road safety, called the Safe System approach,. In collaboration with United Nations Road Safety WHO has declared 2011-2020 as a Decade of Action for Road Safety.This Global Plan aims to reduce accidents.



CHAPTER-5

SAFE DRIVING NORMS

(Aditi sees Rahul mending his bicycle)

Aditi: Hey Rahul what's wrong with your bicycle?

Rahul : I am trying to fix it up. Actually it is creaking and squeaking while riding.

Aditi : I think it's owing to your negligence in bike maintenance.

Rahul : Yeah actually I was busy with my exams for two months and didn't use it.

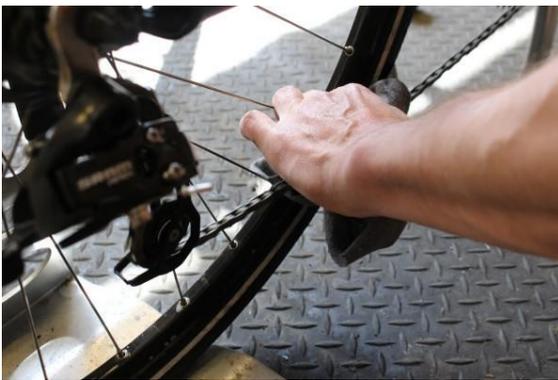
Aditi : where did you keep it?

Rahul : It was in my garage.

Aditi: I think it has caught dust and needs cleaning and lubrication.

Aditi gives tips to Rahul on bike maintenance:

1.) Always keep the bike chain clean and lubricated.



- **Get all the dirt you possibly can get off the chains, sprockets and chain wheels. After everything is nice and clean, turn the cranks slowly backwards and simultaneously apply a drop of bike oil on the inside of every link on your chain.**

2.) Keep your tires inflated. Poorly inflated tyres are prone to punctures.



- **Check tire pressure before every ride, especially if you're running tubeless.**

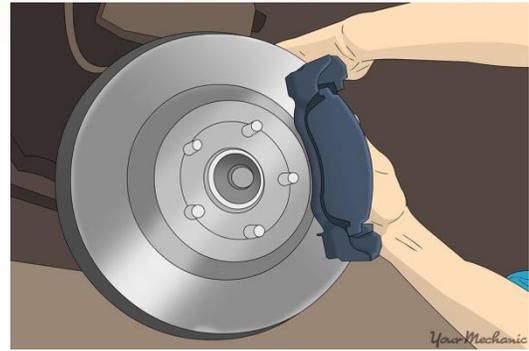
Things to Remember:

- **If you're not going to ride your bike for a long time, like six months or a couple of years remember to keep the tires inflated even during the pause.**
- **If not possible, take the tires off completely. By doing this you prevent cracks on the sides of the tires.**

3) Ensure that your brake blocks are not worn down and can stop you efficiently. Keep a check at regular intervals.



- **Change brake pads if necessary**



4.) Keep the nuts and bolts tight, but



don't over tighten them.

5) Gear maintenance: **Most gears are pre indexed but one should ensure during a pre-ride that they properly shift .**

- **Keep the jockey wheels moving freely by cleaning them and applying lubricant once in a while.**

6) Check if your wheel is “true”

- **Turn your bike upside down and spin your wheels. If they wobble a little from side to side, they need “truing” which refers to the alignment (and cutting) of a wheel (especially a grinding wheel) such that its surface is concentric with its axis.**



Rahul : Wow! Aditi I must appreciate your knowledge and awareness. Thanks for your wonderful tips.

Rahul : Aditi I am planning to buy a scooty after my schooling. Do you know something regarding it's maintenance ?

Aditi: Not much but I can take you to one of my cousins who is 18+ and has a good knowledge about it.

(Aditi takes Rahul to her cousin, Ritvik)

Aditi :Hello Ritvik. Meet my friend Rahul.

Ritvik: Hello, Nice to see you.

Aditi: Brother Rahul is keen to purchase a scooter and wants to know about its maintenance.

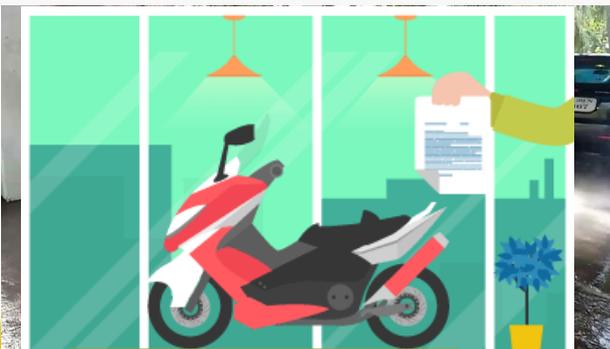
Ritvik: Sure. It is very important to be well informed about vehicle maintenance before its purchase.

Ritvik gives Tips for maintenance of a Scooter.

TIPS FOR SCOOTER CARE AND MAINTENANCE

● KEEP IT CLEAN

Check your scooter regularly for dust and debris. Use soft, damp cloth to clean surface of your scooter. Use appropriate cleaners to wash it properly at least once a week.



● TYRES

Regularly check the air pressure to enjoy longer tyre life. Inappropriate air



pressure exerts extra pressure in every ride.



- **PARK IN SHADE**

Protect your scooter from dust, moisture and sunlight. It's recommended to park your vehicle in shade to avoid extreme temperatures (hot or cold) and rain, as it can damage the body.

- **CHANGE OIL**

Frequently change the oil to enjoy a better riding experience. For new scooters, it must be done within initial 300 – 500 miles and then once after every 1000 miles. Use high-quality oil that's good for your scooter.

- **SPARK PLUG**



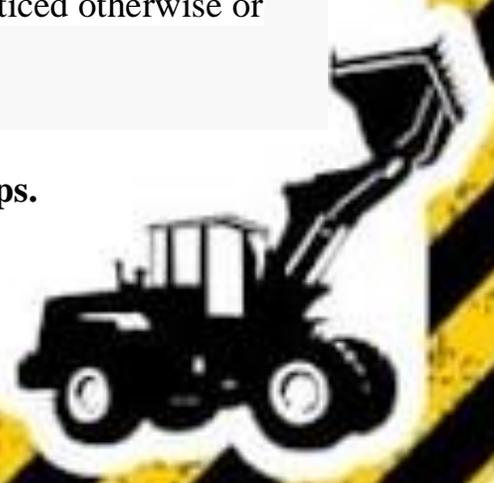
- **CARBURETOR**

Cleaning a carburetor is quintessential as it is responsible for pumping fuel and mixing it with air at a specific value. Carefully clean it and seek professional help to make any adjustments in it.

- **REGULAR INSPECTION**

No matter how well you take care of your scooter, yearly inspection by a professional or a local repair shop can help finding out small problems that can be devastating later. It helps in finding issues that might go unnoticed otherwise or you don't know how to spot.

Rahul : Thank you so much Ritvik for sharing these tips.



Ritvik: Rahul, don't forget to obtain a driving licence before you start driving on the road.

Rahul : Oh yes, I forgot about it. Please let me know the procedure of obtaining it.

Ritvik: Rahul, driving licence is the most essential and mandatory document to drive a vehicle. in any public place. It is issued by the local transport authority which has been authorised to issue such a document under the norms of Government of India. Broadly there are two types of driving licences:

- Learners Licence
- Permanent Licence

Age eligibility for obtaining Licence :

- 16 years - For vehicles upto 50cc engine capacity & without gear along with consent of parents/ guardian.
- 18 years - For a permanent licence to drive a private motor vehicle.
- 20 years - For Commercial Vehicles.

The applicant should be conversant with traffic rules and regulations.

Rahul : Is there any other documents required?

Aditi :Yes.There are documents as well as an enclosure.

Documents required:

1. Application Form (available from local transport authority)
2. Residence Proof
3. Age Proof
4. 3 Passport Size Photographs
5. Medical Certificate
6. Requisite Fee as laid down by the authority



Learner licence is valid for six months only and it can be renewed only once supported by a Medical Certificate from MBBS Doctor in Form No. 1 within 29 days from the date of expiry. The Applicant can appear for the test for issue of Regular Licence after 30 days before expiry of six months of the issue of Learner's Licence.



After scrutiny of all the documents the applicant is put through a driving test. The applicant is tested for his driving skills, knowledge of traffic rules and regulations. If he/she passes the test, a Permanent Driving Licence is awarded.



ACTIVITY 5

In order to spread awareness about road safety rules such as traffic lights, speed limits, pedestrian rules amongst the masses, create your own jingle, record it, save on your Google drive and share on roadsafetysentinels@gmail.com. The jingle must be one the general public can relate to and must promote road safety. It should not exceed 60 seconds. and can be submitted either in an audio or a video format



CREATE AND SING ALONG!!!!

CHAPTER – 6 Common Driving Mistakes

(Rahul reaches home)

Father : Where are you coming from Rahul?

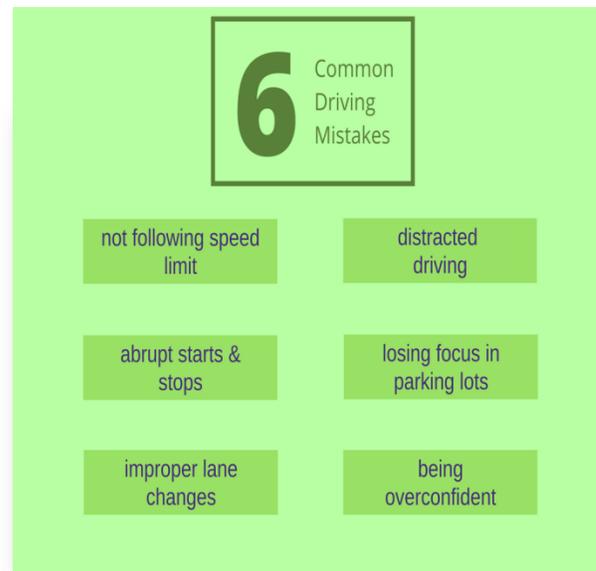
Rahul: Today I met Aditi's cousin who enhanced my knowledge on Scooter maintenance.

Father: Good, It seems you are very serious about purchasing a scooty But you will be getting it only when you turn 18.

Rahul : Yes papa I know that underage driving is a punishable offence.

Father : You are right. Youngsters these days are very enthusiastic about driving but they do not follow traffic norms seriously and take it for granted. They need to cultivate the habit of using the road in a proper manner. You should also be a responsible road user and should not commit the common driving mistakes:

- **Losing attention - zoning out**
 - ❖ Stay relaxed but totally focused
- **Becoming Distracted**
 - ❖ Avoid using cell phone while driving
 - ❖ Plan your trip and study your trip prior to commencing
- **Avoid driving when you are drowsy**
 - ❖ Make sure to get adequate rest before long trips.
 - ❖ Take breaks frequently or as required.
- **Driving Aggressively**
 - ❖ Avoid jumping red lights and stop signs
 - ❖ Remain calm and drive with a safety cushion.



- **Making Assumptions about other driver's intentions**
 - ❖ **Drive defensively**
 - ❖ **Make your intentions clear by using turn signals**
 - ❖ **Remember the speed limit is the legal limit in ideal conditions.**
- **Changing lanes without checking blind spots**
 - ❖ **Check signal, mirrors and take a quick glance**
 - ❖ **Make lane changes gradually**
- **Driving while upset**
 - ❖ **Avoid this, as it is comparable to driving intoxicated**

Rahul : Yes papa I will keep your advice in mind forever.



Activities

School crossing patrol interview

School crossing patrols play a very important role in keeping us all safe when we cross the road. In this activity you will interview your school's. You can then write up the interview and put on the notice board.

Below are some example questions you could ask:

- Q When did you start the job?
- Q What hours do you work?
- Q About how many children do you cross each day?
- Q Why are school crossing patrols important?
- Q Do you enjoy your job?
- Q Do you have some fast cars passing while the children are crossing?
- Q Was it your dream to be a school crossing patrol?
- Q What would you like to be if you were not a school crossing patrol?
- Q Were you surprised to see what you had to wear?
- Q Do you like the uniform?
- Q If you could change the uniform, what would you change it to and why?
- Q Do you get cold doing your job?
- Q Is anyone else in your family a school crossing patrol?
- Q What items do school crossing patrols have to legally stop the traffic?
- Q What are the good points of your job?
- Q What are the bad points of your job?
- Q Would you like to work all day?

