



Module 2

Flat tyre!



SHORT DESCRIPTION

In this class the kids learn how to fix a flat tyre. There are many steps to be undertaken, so it is best to have two full hours available for this activity. It will also be important to underline that the exercises are not a race against time, and that the important thing is to do the things carefully.

EXPECTED LEARNING OUTCOMES

English vocabulary	Words related to bike parts, materials and tools Moods
English grammar	Imperative mood
Complementary skills	Manual and technical skills Repairing a flat tyre Teamwork

BEFORE THE CLASS

Put four different mood pictures on wall spread around the classroom. Start with simple ones, e.g. happy, angry, hungry, tired/sleepy.

Prepare the demonstration wall and demonstration bike. Check that you have all the tools needed for the demonstration. In addition to the demo sheets, put a big sheet of paper next to it where you can write the “action list”.

Prepare four different corners where the students can repair their bicycles. Prepare four sets of repair kits, but do not distribute them until it is time to do the repair. Make sure that the demo-bike and the students’ bikes have one flat tyre. Best is to punch the front tyre, since that is the easiest one to remove.

Check where you can find water and if you need to fill the water buckets before the class, or if the kids can easily do it themselves.

When the teacher and kids arrive, ask them to bring some heavy books to the classroom where you are, to be used when gluing the rubber patch to the inner tube.

1. WARM-UP

Activity 1.1

Moods on the wall...

Description

Gather the kids in a circle in the middle of the room. First the teacher introduces different moods by mimicking them. Example. "Today I am feeling Hungry" (touching his/her stomach). Then he/she asks all the kids how they are feeling, one at a time around the circle.

Then the teacher walks to the different mood walls and mimic the mood on the picture. The students stay in the centre. Once all the moods have been demonstrated, the teacher returns to the centre and says one of the moods randomly. Ex. "Today I am feeling..... happy!" The idea is that all the kids run to the right mood wall. If they don't get it, start showing them how to do. The second time they will get it!

Time needed

5-10 minutes

Materials

- Mood pictures ([Annex 2D](#))

2. LEARNING

Activity 2.1

I have a flat tyre!

Description

Just like in Module 1, use the "tool map" with pictures of the different tools you need to fix the bike ([Annex 2A](#)). Also show the real items like in lesson one. Let the kids write down the words on their students' map ([Annex 2B](#)). Then, the teacher explains that the mechanic is sad or angry because he/she has a flat tyre, while the mechanic shows them the problem on the bike. Conclude that: "we need to fix the tyre"!

The mechanic demonstrates in two parts how to fix the tyre: remove and put back. The mechanic first goes through the "Remove" part, while the teacher writes down the "key actions" from the action list (you can also use the list to remember how to do it). Between Part 1 and Part 2, it is necessary to wait at least 10 minutes before putting back the wheel, to let the glue dry. You can use these 10 minutes to discuss with the kids about their experience ("Did it ever happen to any of you?"; "Where were you?"; "What did you do?"; etc.) or to do the exercises corresponding to section 4. Practice (Worksheets 2).

Once the glue is dry, the mechanic can demonstrate the next part, followed by the teacher who writes down the second part of the action list.

ACTION LIST

PART 1: Remove

1. Remove the wheel
2. Remove the tyre
3. Pull out the inner tube starting from the valve
4. Find the hole
5. Mark the hole
6. Dry the inner tube
7. Use the metal rasp/sandpaper
8. Glue the rubber patch
9. WAIT ten minutes!

PART 2: Put back

1. Put back the inner tube (start from the valve)
2. Put back the tyre
3. Put back the and wheel
4. Pump!

NB: Given the level of difficulty of this activity, the mechanic can speak in the national language to facilitate the pupils' understanding. In the meanwhile, the teacher asks questions and repeats the key actions.

Time

40-45 minutes

Materials

- Demo Sheets Module 2 ([Annex 2A](#))
 - Students' Tool Map ([Annex 2B](#))
 - Whiteboard marker
 - Demonstration bike with a flat tyre
 - Wrenches
 - Tyre lever
 - Water buckets
 - Paper towels to dry the inner tube
 - Permanent marker
 - Repair Kit (rubber patch, metal rasp, glue)
 - Heavy books to facilitate gluing
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3. INTERACTION

Activity 3.1

Making teams

Description

Tell the kids to stand in a line. Make four teams according to different bicycle pieces: e.g. PEDAL, BRAKES, WHEEL, SEAT. Once the kids are in their "repair corners", make them read the steps from the board aloud (either dividing the bullet points or all at once, depending on the size of the group).

Time

5-10 minutes

Activity 3.2

Fix the tyre

Description

The kids are divided into four groups and work on fixing one tyre each. If the tyres are not already flat, the mechanic should have a needle to punch the tyre quickly once the kids have removed it (try to make it invisible). Before they start, appoint one TOOL MASTER, one WATER MASTER, and one PUMP MASTER in the group. It might be good to appoint kids that are shy, or at least not the ones who tend to "do everything". The TOOL MASTER is responsible for the repair kit, and to give the right tool in the right step. The WATER MASTER (if applicable) will get the water, the PUMP MASTER the pump. The teacher is the GLUE MASTER and the kids have to ask for it when they need it. Both the mechanic and teacher are supposed to support the groups to develop the task.

Time

40-45 minutes

Materials

- Four bikes with one flat tyre to repair (preferably the front tyre)
 - Four repair kits
 - Four wrenches
 - Four plastic folders
 - Four pumps
 - Four water buckets
 - Paper towel to dry the inner tube
 - Four permanent markers
 - Heavy books to facilitate gluing
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4. PRACTICE

Activity 4.1

Worksheets

Description

Once done with the practical part of the lesson, the work sheets are handed out. First explain carefully each exercise, then let them do it and correct them.

Time

10-15 minutes

Materials

- Worksheets ([Annex 2C](#))
- Pens to distribute