

Freedom to Ride

Bicycle Skills Curriculum

Lesson 4

Ride on the Right



Acknowledgements

MOVE Santa Barbara County incorporated in 1995, and has taught bicycle education to youth and adults for over two decades. This curriculum is based on national guidance, our experience, and the suggestions and recommendations of educators, parents, community members and students. Our goal is to provide simple visually-driven guidance that provides the flexibility to tailor the program to work for a variety of schools and other educational programs. Bicycling is fun, good for the planet, good for your health and cost efficient. We want students to love to ride and to learn to do so safely, ensuring a lifetime of freedom to explore their worlds.

This curriculum would not be possible without the decades of support, guidance and dedication of individuals and organizations too numerous to mention.



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LESSON #4

RIDE ON THE RIGHT

INTRODUCTION

We created this lesson to reinforce the signaling and yielding learned in the first three lessons, while also introducing the idea that students must always ride on the right side of the road or path. This course presents them with a real-world road scenario that weaves all of these skills together. Learning these skills in tandem will help your students be more confident in navigating the real-world roads and paths of their neighborhoods.

Objectives

After completing this lesson, your students will have mastered the following skills:



Riding on the Right

Learning to stay to the right hand side of the road and maintaining awareness of traffic flow.



Signaling

Properly indicating turns by taking a hand off the bars to signal, all in advance of the actual turn.



Yielding

Recognizing a yield sign, and understanding that it means that they must stop here to let pedestrians and motor vehicles cross.

PREPARATION

Materials

For this lesson, you will need the following materials:

- A bicycle for every student
- A helmet for every student or
 - Hair nets for every student if sharing helmets
 - Trash can for hair nets
- Safety vests for half the class
- 2 stop signs
- 2 yield signs
- 14 big cones
- 110 small cones
- Directional arrows
- Sidewalk chalk
- Bicycle floor pump
- Chain lube and rags
- Large adjustable wrench
- Allen wrench multi-tool



Logistics

To teach the lesson you will also need the following:

- A secure paved space on your school campus. This could be a blacktop playground or parking lot.
- At least 3 volunteer assistants: 2 for the Learner's Course, and 1 for the Group Ride. More assistants will allow a better student to adult ratio. See [Campus Support Guide](#) guide for tips on how to find assistants. See Page 9 for how to adjust the lesson with fewer assistants.



Classroom Prep

In the days leading up to the lesson, work with the classroom teacher on the following preparations:

1. Send home [Parent Notification Flier](#) to remind students and parents to bring their bikes on the day of the lesson, and to request parent volunteers.
2. Have all students watch:
 - For 5-9 year olds: https://www.pedbikeinfo.org/bicyclesaferjourney/el_en.html
 - For 10-14 year olds: https://www.pedbikeinfo.org/bicyclesaferjourney/mi_en.html



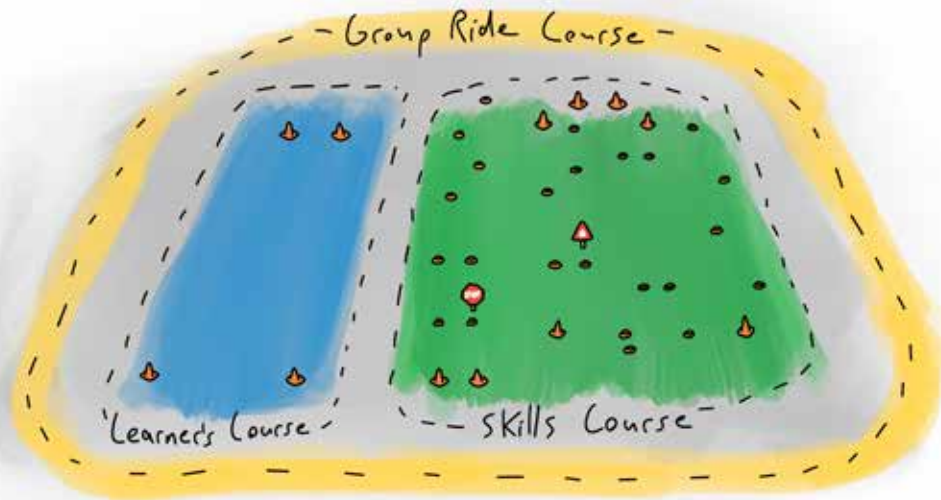
Duration

This lesson is designed around a 60-minute class period, though it can be modified based on your desired duration (see page 17).

- **Pre-Lesson Instruction** (10 min): Walk students through the bike and safety checks.
- **Course Assignment** (10 min): Divide students between courses based on skill level.
- **Lesson** (35 min): Instruct students on the core skills of the lesson, with those on the Skills and Group Ride Courses flip flopping halfway through.
- **Cleanup** (5 min): Gather bikes and helmets and discuss lessons learned.

Courses

During the Lesson period, students will ride one of these three courses:



Learner's Course

Here, the students who do not yet feel comfortable riding a bicycle can practice balance and pedaling with the help of your assistants.

Skills Course

This is the backbone of the lesson. Students will navigate obstacles, practicing skills from the Objectives as well as those from previous lessons.

Group Ride Course

As they wait for their turn on the skills course, students will go on an assistant-led loop ride, practicing skills from previous lessons.

Setup

On the day of the lesson, 30-40 minutes before the students arrive, work with your volunteer assistants to set up the three courses using cones, chalk, directional arrows, and traffic signs. You will also need to designate an area to stage bicycles and helmets. See the end of this lesson plan for a detailed diagram of the Skills Course, and page 14 for a detailed diagram of the Learner's Course.

PRE-RIDE INSTRUCTION

1. Set Expectations

Once the students arrive, they will likely head straight for the bikes and want to get riding as soon as possible. However, there are several key points to cover with them before they start pedaling so that everyone has a safe and fun day.

Each of the elements below is described in the second person so that you can use them as a script if needed. Emphasize that these are not about punishment, but making sure that everyone has a good time:



Listen to the instructor and assistants. If you don't, your ride could be over for the day.



Make sure to always wear a properly adjusted helmet when riding out on course.



Skidding, wheelies, and racing are not allowed. These can damage bikes and cause crashes.



Be kind and patient with your classmates. Help each other so that you can all ride together.

2. Distribute Bicycles and Helmets

Distribute plastic liners for the students to wear under helmets if they will be sharing.

If the students have brought their own bicycles, ask them to go stand next to theirs. If students are using provided bicycles, have your assistants assign them to bicycles that fit them best based on the illustration to the right. You will fine-tune fit and seat height later on in the lesson.

There should be at least 1-2" of clearance between the student and the bike when they are standing over it.



3. Toe to Head Check

Before students start riding, have them do a quick assessment of their clothing to make sure that they are visible to cars, and don't have loose items that might get caught in a wheel or chain.



Shoes

Tie your laces and tuck them into the side of your shoe, or under the top laces.



Pants

Roll up your right pant leg up to just below your knee and make sure to cuff it.



Loose Clothing

If you are wearing a sweatshirt around your waist, roll it into a tight noodle and tie it.



Colors

Wear bright colors so that drivers can see you and give you the space you deserve.

4. "2-2-2" Helmet Check

California law requires that youth 17 years and younger wear a properly fitted helmet while riding. Remind your students that they shouldn't just wear a helmet because it is the law: it protects your head and brain too! They can use two fingers to check all three of the adjustment points on the helmet. Have your assistants move around the group to help as you walk students through the following steps:



Forehead

You should only be able to fit *two fingers* between your eyebrows and the helmet. If the helmet tilts further back, it won't protect your brain.



Ears

Make the letter "V" with *two fingers*, and put them right under your ears. That is where the buckle or seam of your helmet straps should sit.



Chin

You should only be able to fit *two fingers* between your chin and the strap. If you can fit any more, your helmet could slip back in a crash.

Have your students shake their heads to ensure that the helmet is comfortable but doesn't move around on its own. Your assistants should double check each student's helmet to make sure they got the fit right.

5. Bicycle Check

Now that your students are ready to ride, it's time for them to give their bikes a quick once-over. We do this using a simple Safety Check, which students should do every time they go for a ride. Walk them through each of these steps, using your bike as an example. If any student's bike doesn't pass one of these steps, tell them to raise their hand and an assistant will help them fix it.

1. Air

It's pretty hard to ride on a flat tire. Check that yours are inflated by squeezing both your front and rear tires with your fingers. They should feel hard, not squishy.



2. Brakes

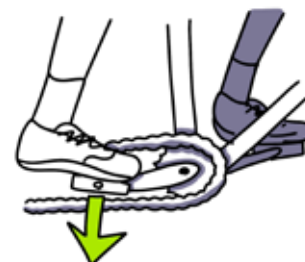
How would you come to a stop if your brakes were not working? There are different ways that you can check to make sure that they are functioning depending on the type of brakes you have:

- **Hand (Rim) Brakes:** If your bike has levers on the handlebar, it has hand brakes. These stop the bike when you pull them. To test them, stand over your bike, pull the left lever to activate your front brake, and rock your bike backwards and forwards. Then do the same with your right lever to activate your rear brake. Your bike shouldn't be able to move when a lever is pulled.

It is important to use both brakes at the same time. If you just grab the rear brake this can lead to an uncontrolled skid. If you just grab the front brake the bike can flip forward and send you over the handlebars.



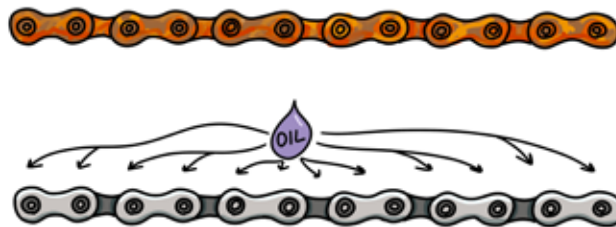
- **Coaster Brakes:** If your bike does not have brake levers on the handlebar, it has a coaster brake. This stops the bike when you pedal backwards. To test this, sit on the seat, put one foot on a pedal, and push backwards. While doing this, rock the bike backwards and forwards. It shouldn't be able to roll.



3. Chain

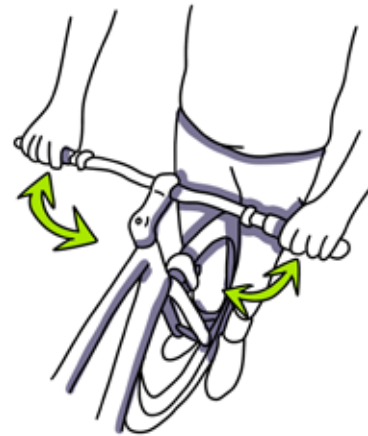
Your chain is one of the most important parts of your bicycle. It is what allows your pedaling to move the rear wheel. Without it you wouldn't be able to get anywhere fast! There are several things to check on your chain before riding:

- Is the chain dry or rusty and orange? If so, it might need some oil to function properly.
- For older students with geared bikes, have a classmate pick up your seat so the rear wheel of your bike is off the ground. Then rotate one of the pedals forward (clockwise) with your hand. This will make sure that the chain is properly seated on your gears before you start riding. If it is stuck between gears, it can break when you start pedaling.



4. Handlebars

Your handlebars not only help you steer your bike, but are home to your shifters and your brake levers. Making sure that they are properly tightened onto your bike is crucial. Imagine trying to drive a car with a loose steering wheel! To check this, stand in front of your bike, and grip your front wheel between your legs. Grab your handlebars and twist them side to side. They should not move. If they do, there are two ways to fix this depending on what type of stem your bike has.



If there are no bolts on the side of the stem, tighten the bolt on the top until the handlebars no longer twist.

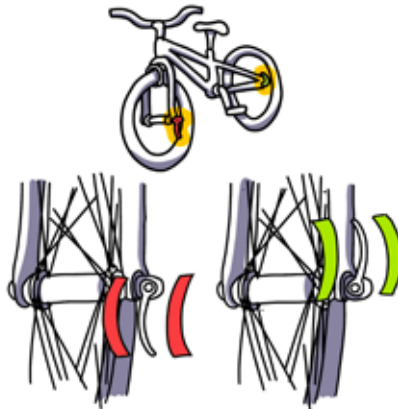


If there are bolts on the side of the stem, tighten them both equally until the handlebars no longer twist.

5. Wheels

Check to ensure that the wheels are secured tightly. Many bicycles have a quick release lever on the side of the wheel that holds it in tight. Flipping the lever into the tightened position should take a little bit of force. If it flips up too easily, or doesn't stay closed, tighten the nut on the other side of the hub.

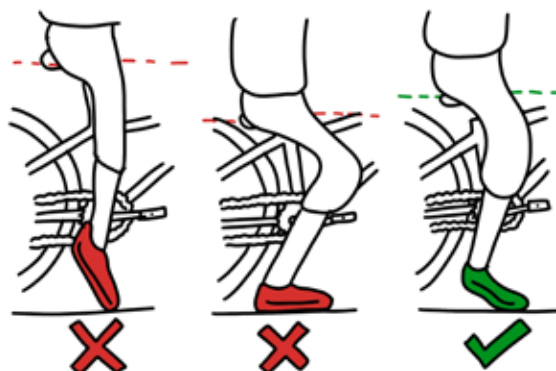
Some students may have bicycles where the wheels are held in place by bolts or a thru-axle instead of a quick release. Have an assistant with a large adjustable wrench and multi-tool with allen wrench circulate through the students as they do these checks to help tighten these as needed.



6. Seat

Proper seat height is key to enjoying your ride safely. When seated, the rider's feet should just be able to touch the ground. Note that for those just learning to ride, we will start with the seat slightly lower. This will be covered later on in the lesson.

On many bikes, proper height is controlled by a quick release lever located where the seatpost enters the frame. This lever functions the same way as the quick release on a wheel. When this lever is opened, it allows you to raise and lower the seatpost. Have your assistants work with each student to set proper seat height, and then close the lever in the same way that you did on the wheels.



LESSON

Course Assignment

After the safety checks, it is time to start the lesson. Divide your students into two groups:



Those who know how to ride



Those who are still learning to ride

Use the following steps to do this:

1. Tell the students, “If you know how to ride a bike, join us for quick lap around the lesson area.” Have any students who do not join this lap move to the Learner’s Course.
2. If any of the students who did join the lap are clearly still struggling to ride, have them also join the Learner’s Course.
3. If you have two or more assistants, split the remaining students who did complete the lap successfully into two groups. One will proceed to the Skills Course, while the other will continue riding laps with an assistant as part of the Group Ride. Halfway through the lesson, these two groups will switch areas.
4. If you only have one assistant, drop the Group Ride and have all the students who successfully completed the quick lap proceed to the Skills Course.

Starting The Lesson

Instruction will now begin simultaneously on all of the courses. We suggest having the PE teacher manage the Skills Course, the classroom teacher or an assistant manage the Learner’s Course, and a third assistant manage the Group Ride. Additional assistants can help on the Learner’s Course, or in specific places on the Skills Course as noted below.

Here is a breakdown of how to run all three of these courses:

1. Learner’s Course: pages 12-14
2. Skills Course: pages 15
3. Group Ride: page 16

Learner's Course Instruction

The Learner's Course is where the classroom teacher or an assistant, plus ideally 1 additional assistant (a 4:1 student to adult ratio is best) will help those students who are not yet comfortable riding a bicycle on their own. Share this portion of the Lesson with the adult who will be leading the instruction so that they are familiar with the skills progression.

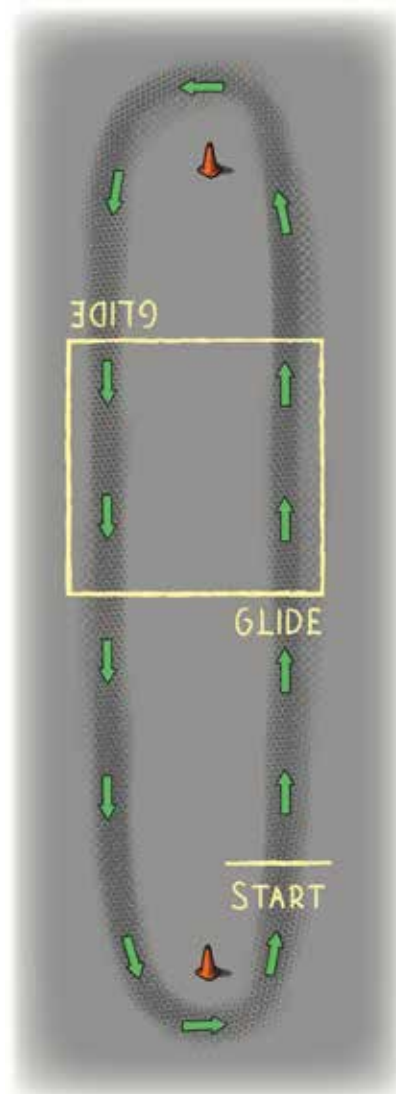
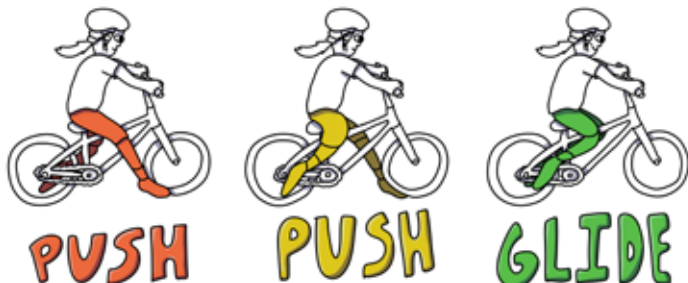
Teaching a kid how to ride a bicycle is one of the most fulfilling activities you can be involved in! Everyone learns at their own pace, so to take it slowly and let every student decide how quickly they are ready to move forward. Be supportive and maintain their trust. Make sure that all adults working on this course understand this, and have read their [Volunteer Guide](#).

Setup

The Learner's Course should be set up as a long narrow rectangle, with the students riding in a big loop. This allows them to ride in a straight line while mastering a particular skill. If there is a downward slope anywhere on the blacktop, use it! Students will master these skills faster if they have some momentum.

Directions

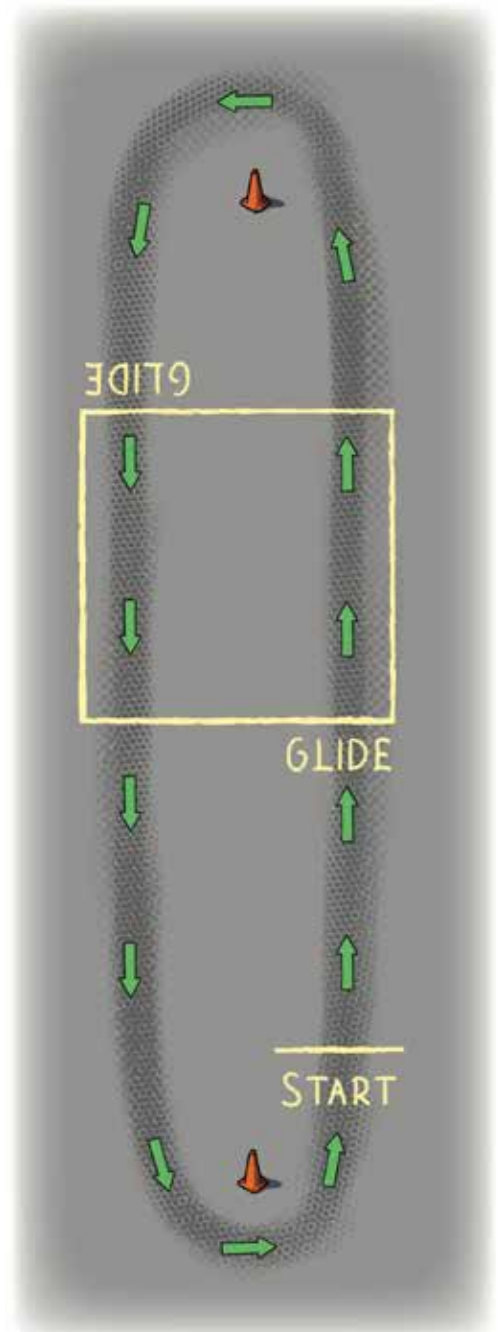
1. Have the students line up behind the designated start line.
2. Adjust each student's seat so that they can sit on the bike while also having their feet flat on the ground.
3. Adjust the seat on your own bike to the same height.
4. Demonstrate how to use your brakes:
 - Rocking forwards and backwards while standing over your bike, grabbing their brake levers (for hand brakes) or holding a pedal backwards (for coaster brakes).
 - For those with coaster brakes, explain how their bike will always stop when they pedal backwards.
5. While standing over your own bike, demonstrate how they can move forward by walking with their bike.
6. Then show them how they can push off the ground with one foot, then the other, and then lift their feet up to glide forward. We call this "Push Push Glide."



7. Have the students start walking around the course in a big loop while standing over their bikes as demonstrated, then progressing to Push Push Glide as they are comfortable. They should start with smaller steps for the Push Push portion, then proceed to larger steps as they are comfortable.
8. Mark off part of the area with chalk, and encourage them to glide when they are in this area.
9. As students master Push Push Glide, encourage them to try putting their feet onto the pedals during the Glide portion. You can say “Push Push Glide PEDALS!” to motivate them.
10. Once some of the students have gotten comfortable putting their feet on the pedals, have everyone pause wherever they are on the course and turn towards you.

11. Demonstrate with your own bike how to start from the Power Pedal Position:

- Rotate your dominant foot pedal at 2:00, or roughly parallel to the downtube of the bike frame.
- When ready, push down on hard the pedal, then hard on the ground with your other foot, and roll forward.
- Immediately bring your other foot onto the other pedal.
- Keep pedaling. The faster you go the easier it will be to balance.
- Hold your handlebars straight to avoid swerving.
- Don't look down, keep your head high and shoulders straight. Your bike will naturally want to go where you are looking.
- When ready to stop, use your brakes to slow down to a stop before taking your feet off the pedals.



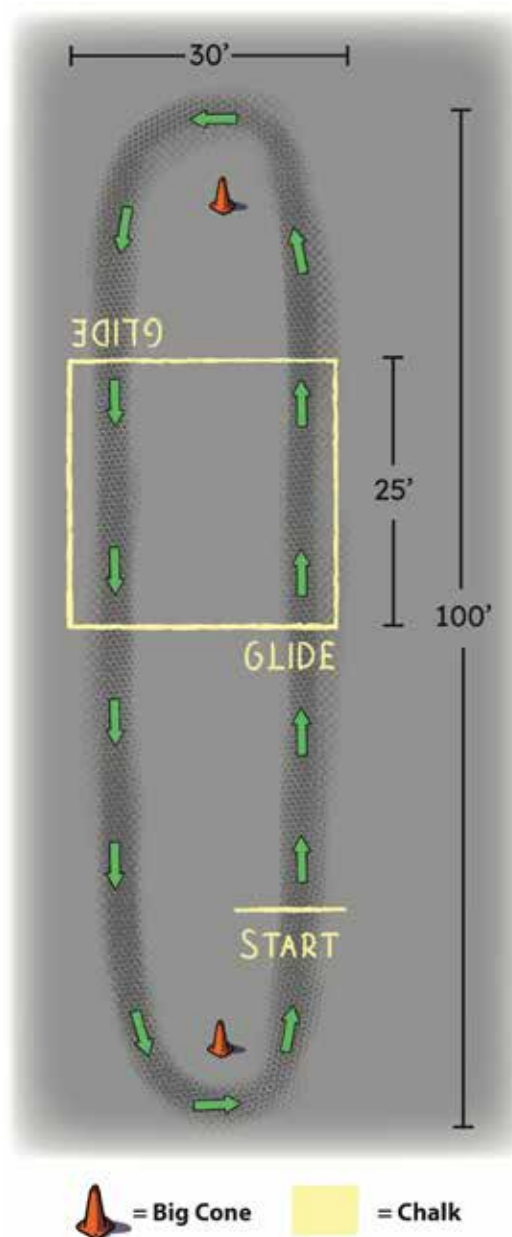
12. Have the students restart riding the course, with those who are ready to do use the Power Pedal Position doing so. The rest can continue to practice Push Push Glide.
13. If you have enough assistants, have one walk behind each student as they start from the Power Pedal Position to steady them if they lose their balance.

General Tips

- Whenever possible, avoid holding onto a student or their bike as they learn to balance. Kids learn to balance much better if they don't have an adult holding them up. If necessary, demonstrate the skills again on your own bike, then have them repeat it.
- If a student is working really hard and not getting it, take a water break and tell them they're doing a great job! You can also switch students with another assistant. Sometimes hearing the instructions in a different way will help the student progress.
- Students are dealing with learning a lot at once. Be patient and whenever you can, break down those components. This is a learning process for everyone!

Course Layout

Here is a diagram of the Learner's Course to help with setup. Feel free to modify as needed based on the space available at your school.



Skills Course Instruction

The Skills Course is where you will teach the primary skills of this lesson: riding on the right, signaling, and yielding. Before students start riding the course, have them watch you ride it once. Narrate what you are doing as you pedal the course. Highlight where they should be practicing specific skills. We have underlined these skills in the Directions. Once you finish, have the students ride through the course one at a time, waiting to let the next student go until the one in front of them has reached the first corner of the course.

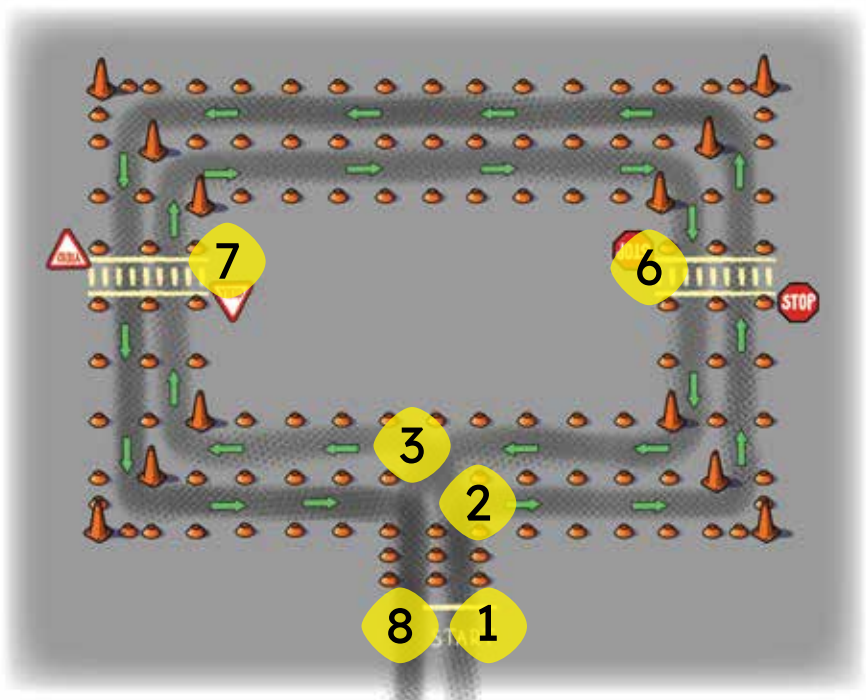
Halfway through the class, have the students on the Skills Course switch places with those in the Group Ride.

Setup

- Divide the students into two equal groups, and have half wear safety vests.
- The half with vests will ride clockwise on the outside of the course, the other half will ride counter clockwise on the inside of the course.
- After 5-10 minutes, have the groups exit the course and switch directions: those with vests will now ride clockwise on the inside of the course.
- Ideally, you will have 2 assistants for this course to pose as pedestrians at the two crossings, crossing randomly and forcing the students to stop and yield.

Directions

1. Line up at the driveway start line.
2. Those wearing vests will make a right turn out of the driveway onto the outside of the course.
3. Those not wearing vests will make a left turn out of the driveway onto the inside of the course.
4. Enter the course one at a time, looking left, then right, then left again for approaching riders before starting.
5. Before each turn, signal to the right. Hold this signal for 2-3 seconds, then put your hand back on the bars before executing the turn.
6. At the crosswalk after the stop sign, stop and look left, then right, then left again, waiting for the pedestrian assistant to cross.
7. At the crosswalk after the yield sign, stop and yield if a pedestrian is waiting to cross.
8. When the lesson is finished, all riders should exit the course through the driveway lane next to the start line.



Group Ride Instruction

The Group Ride Course is where an assistant takes the half of the class that is not participating in the Skills Course on follow-the-leader ride around the lesson area. Students should follow the assistant assigned to lead this ride, always maintaining 1-2 bike lengths between them and the rider in front. For this lesson, have the assistant practice the skills listed in the first three lessons, adding the following skills with the students where appropriate:

- **Tight Turns:** Lead students around a pole or cone without stopping or putting their foot down. This requires riding slowly, which is more challenging than riding fast. Students increase their maneuvering capability when they practice tight turns.
- **Take It Wide:** Draw a 5' long angled line with chalk on the pavement. Tell students to “take it wide” by maneuvering their bicycle in a wide turn that allows them to cross the line at a perpendicular angle. This activity teaches students to always cross railroad tracks and driveway lips with their bike perpendicular to the obstacle.

Lesson Modifications

These lessons are built around a 60-minute class period. If needed, you can modify the Skills Course portion to better fit the duration of your PE class. Here are a few suggestions:

Make it Shorter

- Remove the stop signs, yield signs, or both.

Make it Longer

- Convert the driveway entrance to the course into a small roundabout, and allow students to make u-turns.
- Have the driveway entrance act as a “quiet neighborhood street” and the main rectangle act as “busy streets.” Add a stop sign where the “neighborhood street” hits the “busy street.” Students must then stop, and look left-right-left, waiting for traffic on the “busy street” to clear before turning.

Cleanup

Once the lesson is finished, have the students help you pick up the cones, signs, etc. They should also return all their bicycles to the staging area, setting them up as they found them at the beginning of the lesson. If there is time, consider gathering everyone in a group and asking them the following questions:

1. What skills have you learned today? Can you describe them?
2. What was the hardest part of the lesson?
3. What was the most fun part of the lesson?

Finally, give them a brief description of the next lesson, and get them excited about the new skills that they will learn! Remind them that this whole series of lessons isn't just a fun school activity: this will help them safely navigate their neighborhoods and give them the freedom to get where they want to go.

Skills Course Layout

Here is a diagram of the Skills Course to help with setup. Feel free to modify as needed based on the space available at your school.

