



Elementary Lessons Grades K-5





KINDERGARTEN LESSONS: DANGERS OF THE STREET, CROSSING SAFELY & PARKING LOT SAFETY

Kindergarten is an important time for young students to learn how to be safe when out with their friends and families. These lessons cover many of the basics for street and parking lot safety.

Additionally, many Kindergarteners will be learning to ride bikes at this age. The resources section of the Bicycle Colorado Safe Routes to School Teacher Tool Kit has many useful handouts including a "Teach Your Child to Ride Without Training Wheels" guide.

LESSON 1: DANGERS OF THE STREET (5-10 MINUTES)

Take time to discuss traffic and street dangers with small children. The majority of crashes and fatalities among this age group are due to "dart outs". Discuss what to do if the child sees a toy, pet, other children or parents are in the street. Small children should ask an adult to help and never enter the street unsupervised (even to greet an adult in the street). Ask students to tell stories about their experiences with the street. You will be surprised what they know already and can share with the class!!

LESSON 2: CROSSING THE STREET (15 MINUTES)

Objectives: To understand the need for crossing any street with care and caution. And, to become familiar with the important steps in crossing a street, such as stopping at the curb and finding the edge, looking left, right, and left again before crossing, and continuing to scan for traffic while crossing.

Materials:

Masking Tape or floor tape Small cones (optional) Sidewalk chalk (if working outdoors)

Suggested Location for Lesson: This lesson should be taught in a gym or other indoor space. Kindergarten age students have trouble with distractions outdoors. Once students learn basics of crossing the extended lesson can be performed outside on a playground or field.

Preparation: Practice crosswalk should be set up ahead of class. Take into consideration the floor surface when deciding to use masking or floor tape, as masking tape can damage wood floors. Setup should take no more than 5 minutes. "Draw" a crosswalk using masking tape, floor tape, or sidewalk chalk. Mark the ends of the "curb" with traffic cones to make it easier for students to know where to line up.

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Vocabulary: pedestrian; edge; crosswalk; scan; diagonal; straight; safe; dangerous; left; right; traffic

Note to Teacher: This lesson is geared towards teaching kindergarteners the basics of crossing the street. It is important to note that children at this age are not ready to cross streets on their own. They should be encouraged to cross the street only with the help of an adult.

- 1. 50% to 60% of pedestrian injuries to children aged 5 to 9 are "mid-block dart-out" crash types. (Federal Highway Administration, 1996)
- 2. Pedestrians under age 10 are over represented in crashes where contributing factors are "ran into street", "ran from between parked vehicles", and "playing in street". (Federal Highway Administration, 1996)

Assemble students to in a small circle for discussion. Use the following discussion topics to engage students:

- Do any of you walk places?
- 2. What kind of things do we need to be careful of when walking? (Cars, trucks, bicycles, trains)
- 3. Should kindergarteners walk places by themselves?
- 4. Can any of you tell me what a crosswalk is?
- 5. Is it safe to think that cars will always stop for us in crosswalks? (no, we need to look and wait for them to stop)
- 6. What are some things that grownups do in their cars instead of paying attention?
- 7. If a crosswalk signal says I should walk do I still need to look both ways?

Activity: Crossing the street safely!

- Assemble students at sample crosswalk. Define the edge and where students should be standing to prepare for crossing. Students should stand near the edge but not in the street.
- Have students "check their feet" for untied shoelaces etc. Discuss dangers of tripping and falling in the street.
- Instruct students to look both ways, discuss what they are looking for. Correct students who are simply turning their heads or looking at the ceiling or floor.
- Discuss what to do if a car is coming. Students should learn to wait for cars to pass and look both ways again to ensure the street is clear.
- As a group students should practice crossing. Instruct students to continue to scan the street for cars as the cross. Correct students who are running or walking too slowly.

Practice this until students can perform the crossing on their own. If time allows or in another class period take students outside to practice crossing either on the playground or if possible in a parking lot which has a crosswalk painted on it. The street crossing will be more difficult with the distractions of traffic, other students playing etc. Encouraging students to concentrate on crossing despite distractions is important.

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LESSON 3: PARKING LOT SAFETY

Objective: Small children should understand that they cannot be seen easily in parking lots.

Suggested Location for Lesson: School parking lot.

Preparation: Obtain permission from school administration to take children into the parking lot of the school. Try to find parent volunteers to assist if possible in order to maintain control of the group. Put cones in parking lot to cordon off the section you will be in with the students

Activity: Trip to the Parking Lot!

Take students (and volunteers if available) out to a designated part of the parking lot. Discuss how cars back up (look at lights, talk about sounds that cars make, etc).

Another helpful exercise is to have one adult and one student stand on one side of a car while the class is on the other side. Discuss who you can see the easiest and why a grown up might not see a kindergartener out when driving in a parking lot.

Activity: Penny in a Parking Lot

Materials: Coin, small toy or piece of candy (or anything enticing to the students you are working with)

Have students sit in a circle. Place a coin (or other small toy) in the middle of the circle, and have a student volunteer stand up and hold teacher's hand. Tell student to pretend he/she is in a parking lot with a parent and ask student to run (or "dart out") and pick the coin up.

- Ask other students if the child's behavior was safe? What would be a safer way to get the coin if he/she wanted it?
- Help student to demonstrate the safe way to get the coin/toy. (Ask adult for permission, hold a hand, look both ways, no matter what)
- Ask: What kinds of places do children need to pay attention to cars and other dangers? (Parking lots at grocery stores, schools, playgrounds, everywhere)
- Ask: What kinds of things might you see in the street/parking lot that you would might feel the need to run out for?
- Tell students to pretend they have Velcro or glue on their body and to "stick" themselves to an adult
 whenever they exit a vehicle or are in a parking lot/busy street area. Remind them that if the adult
 they are with has his/her hands full, they can always grab onto a pocket, purse etc. to stay
 connected.

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FIRST GRADE LESSONS: DANGERS OF THE STREET, CROSSING SAFELY, PARKING LOT SKILLS AND INTRODUCTION TO HELMETS

First Grade is an important time for young students to learn how to be safe when out with their friends and families. These lessons cover many of the basics for street and parking lot safety. Additionally, many first graders are learning to ride bikes at this age. The resources section of the Bicycle Colorado Safe Routes to School Teacher Tool Kit has many useful handouts including a "Teach Your Child to Ride Without Training Wheels" guide.

LESSON 1: DANGERS OF THE STREET (5-10 MINUTES)

Take time to discuss traffic and street dangers with small children. The majority of crashes and fatalities among this age group are due to "dart outs". Discuss what to do if the child sees a toy, pet, other children or parents are in the street. Small children should ask an adult to help and never enter the street unsupervised (even to greet an adult in the street). Ask students to tell stories about their experiences with the street. You will be surprised what they know already and can share with the class!!

LESSON 2: CROSSING THE STREET (15 MINUTES)

Objectives: To understand the need for crossing any street with care and caution. And, to become familiar with the important steps in crossing a street, such as stopping at the curb and finding the edge, looking left, right, and left again before crossing, and continuing to scan for traffic while crossing.

Materials:

Masking Tape or floor tape Small cones (optional) Sidewalk chalk (if working outdoors)

Suggested Location for Lesson: This lesson should be taught in a gym or other indoor space. First grade students often have trouble with distractions outdoors. Once students learn basics of crossing the extended lesson can be performed outside on a playground or field.

Preparation: Practice crosswalk should be set up ahead of class. Take into consideration the floor surface when deciding to use masking or floor tape, as masking tape can damage wood floors. Setup should take no more than 5 minutes. "Draw" a crosswalk using masking tape, floor tape, or sidewalk chalk. Mark the ends of the "curb" with traffic cones to make it easier for students to know where to line up.



Vocabulary: pedestrian; edge; crosswalk; scan; diagonal; straight; safe; dangerous; left; right; traffic **Note to Teacher:** This lesson is geared towards teaching first graders the basics of crossing the street. It is important to note that children at this age are not ready to cross streets on their own. They should be encouraged to cross the street only with the help of an adult.

- 1. 50% to 60% of pedestrian injuries to children aged 5 to 9 are "mid-block dart-out" crash types. (Federal Highway Administration, 1996)
- 2. Pedestrians under age 10 are over represented in crashes where contributing factors are "ran into street", "ran from between parked vehicles", and "playing in street". (Federal Highway Administration, 1996)

Assemble students to in a small circle for discussion. Use the following discussion topics to engage students:

- 1. Do any of you walk places?
- 2. What kind of things do we need to be careful of when walking? (Cars, trucks, bicycles, trains)
- 3. Should kindergarteners walk places by themselves?
- 4. Can any of you tell me what a crosswalk is?
- 5. Is it safe to think that cars will always stop for us in crosswalks? (no, we need to look and wait for them to stop)
- 6. What are some things that grownups do in their cars instead of paying attention?
- 7. If a crosswalk signal says I should walk do I still need to look both ways?

Activity: Crossing the street safely!

- Assemble students at sample crosswalk. Define the edge and where students should be standing to prepare for crossing. Students should stand near the edge but not in the street.
- Have students "check their feet" for untied shoelaces etc. Discuss dangers of tripping and falling in the street.
- Instruct students to look both ways, discuss what they are looking for. Correct students who are simply turning their heads or looking at the ceiling or floor.
- Discuss what to do if a car is coming. Students should learn to wait for cars to pass and look both ways again to ensure the street is clear.
- As a group students should practice crossing. Instruct students to continue to scan the street for cars as the cross. Correct students who are running or walking too slowly.

Practice this until students can perform the crossing on their own. If time allows or in another class period take students outside to practice crossing either on the playground or if possible in a parking lot which has a crosswalk painted on it. The street crossing will be more difficult with the distractions of traffic, other students playing etc. Encouraging students to concentrate on crossing despite distractions is important.



LESSON 3: PARKING LOT SAFETY (15-20 MINUTES)

Objective: Small children should understand that they cannot be seen easily in parking lots.

Suggested Location for Lesson: School parking lot.

Preparation: Obtain permission from school administration to take children into the parking lot of the school. Try to find parent volunteers to assist if possible in order to maintain control of the group. Put cones in parking lot to cordon off the section you will be in with the students

Activity: Trip to the Parking Lot!

Take students (and volunteers if available) out to a designated part of the parking lot. Discuss how cars back up (look at lights, talk about sounds that cars make, etc).

Another helpful exercise is to have one adult and one student stand on one side of a car while the class is on the other side. Discuss who you can see the easiest and why a grown up might not see a kindergartener out when driving in a parking lot.

Activity: Penny in a Parking Lot

Materials: Coin, small toy or piece of candy (or anything enticing to the students you are working with)

Have students sit in a circle. Place a coin (or other small toy) in the middle of the circle, and have a student volunteer stand up and hold teacher's hand. Tell student to pretend he/she is in a parking lot with a parent and ask student to run (or "dart out") and pick the coin up.

- Ask other students if the child's behavior was safe? What would be a safer way to get the coin if he/she wanted it?
- Help student to demonstrate the safe way to get the coin/toy. (Ask adult for permission, hold a hand, look both ways, no matter what)
- Ask: What kinds of places do children need to pay attention to cars and other dangers? (Parking lots at grocery stores, schools, playgrounds, driveways)
- Ask: What kinds of things might you see in the street/parking lot that you would want to pick up?
- Tell students to pretend they have Velcro or glue on their body and to "stick" themselves to an adult
 whenever they exit a vehicle or are in a parking lot/busy street area. Remind them that if the adult
 they are with has his/her hands full, they can always grab onto a pocket, purse etc. to stay
 connected.



LESSON 4: HELMETS AND BICYCLE SAFETY (15-20 MINUTES)

Believe it or not some first graders are riding bicycles! This varies community to community, so we suggest taking a quick show of hands in your classroom and finding out if your students are riding at this age. If so teaching them basic bicycle skills and the importance of helmets are very important.

NOTE: Bicycle helmets have been proven to prevent a large percentage of traumatic brain injuries when worn correctly. At Bicycle Colorado we believe that all cyclists should wear a helmet, but should do everything possible to prevent a crash. Think about wearing your seatbelt! You put it on every time you are in the car anticipating the possibility of a crash, but you drive as carefully as possible to avoid the crash.

Objectives: First graders should learn to stop at intersections and learn the proper way to wear a helmet.

Materials: Size small sample helmets

Activity: Helmet Fit

Using the helmet fit guide in the resources section, discuss proper helmet fit. Mention that many students wear helmets, but not correctly. Ask: If you wear a helmet, but it isn't on right, will it do its job?

Have students split into small groups, giving each group a helmet. Have them take turns trying on and fitting the helmet to each other's heads. Check each student for proper fit.



SECOND GRADE LESSONS:

INTRODUCTION TO HELMETS AND BICYCLING SKILLS

Believe it or not, many second graders are riding bicycles. This varies community to community, so we suggest taking a quick show of hands in your classroom and finding out if your students are riding at this age. If so, teaching them basic bicycle skills and the importance of helmets are very important. There are several helpful handouts including a "Teach your child to ride without training wheels" flyer in the resources section of this tool kit. It is also suggested that second graders have a refresher in pedestrian safety. You may want to teach some of the first grade pedestrian lessons if you think this is necessary.

LESSON 1: HELMET SAFETY AND BRAIN INJURIES (15-20 MINUTES)

Objectives: Students should learn to understand the causes, effects, and prevention of brain injuries as well as how to properly fit a helmet.

Materials: Sample helmets, Empathy Station materials - optional (see resources for information about how to assemble the stations)

Vocabulary: Brain injury, paralysis, motor skills, coordination, balance

Discussion Points:

- 1) Why is it important to walk and bike more (to school, to friend's houses, to the park etc.)? Here are some good reasons:
 - Environment
 - Gas prices
 - Exercise
 - Enjoy time with friends/family
 - See your neighborhood
 - Have fun!
- 2) Helmets: Address safety on bicycles, scooters, skateboards etc. Ask: "What is the number one thing you can do to be safe on your bicycle?" Answer: WEAR YOUR HELMET! Ask students the following questions to encourage discussion.
 - Why is a helmet more important than knee pads? Elbow pads?
 - What does a helmet protect? What is inside of our heads that is so important?
 - What does our brain do?
 - Controls your heartbeat, breathing, temperature, blood pressure
 - o Controls your movement, balance, coordination, sensation
 - Controls all of your senses (hearing, sight, smell, taste, touch)
 - Controls your emotions, judgment, decision making, memory)
 - o Controls your speech, sleep, growth
 - What would it be like to lose any of the above? What would you miss the most?



3) Brain Injuries:

- What happens when you have a brain injury?
 - o Computer analogy: the brain is the computer for the whole body.
 - If computer keyboard is missing keys, can you type a letter? (compare to spinal cord injury and not being able to feel/touch an object)
 - If computer screen is scratched, can you see the whole picture? (compare to losing all
 of some of you sight from a brain injury)
 - If computer mouse is not connected, can you move the cursor? (compare to having a spinal cord injury and not being able to type letters)
 - If computer is not plugged in or is broken, will it still work? (compare to major brain injury- the brain cannot function the way it used to)
- How would a brain injury affect you?
- Can your brain heal itself? No!

Activity: Helmet Fit: Bring a student volunteer in front of the group for a sample helmet fit. Remind students that if they wear a helmet that isn't fitted correctly, it won't be able to do its job of protecting their brains. Have all students hold two fingers up and participate in the 2-Finger Test.

2-Finger Test: 1) Place two fingers across forehead (between bottom of helmet and top of eyebrows), 2) Place two fingers (in V-shape) underneath each ear (where straps should go), and 3) Place two fingers under the chin strap. As students are following along, adjust the sample helmet on the volunteer until it fits snugly. Have volunteer shake his/her head to demonstrate that the helmet is on just right.

Question: What are some reasons kids don't wear helmets? (Most important with 4th grade and up) Answer: Not cool, messes up hair, don't have one, can't afford one, too good to need one.

- What types of sports and jobs to people wear helmets for? (football, hockey, baseball, construction)
- If all of those people wear helmets do you think there is a reason?
- Even the best of the best and professionals still crash because things are unpredictable. We only have one brain, and we need to protect it EVERY time we ride!

Optional Activity: Empathy Stations (Additional time needed for this activity) Set up empathy stations around the room and break students into groups. These groups should rotate every 3-5 minutes so each student has the opportunity to try each station. Once students are finished have them clean up the stations and sit back down to talk again. Ask students how the brain injuries mimicked at each station would affect their daily lives.



LESSON 2: RULES OF THE ROAD AND BIKE CHECK (15-20 MINUTES)

At this age, students can begin to understand traffic and the rules of the road. This lesson consists of a discussion about traffic rules and bike check demonstration.

Objectives: Students should understand that bicycles have the same rights, rules and responsibilities as car drivers, but they are more vulnerable and need to take extra precautions. Students should also learn to check their bike to make sure it is safe to ride.

Materials: Sample road signs, bicycle, parts of the bicycle worksheet.

Discussion: Ask students to explain to the class why cars have rules and hypothesize about what might happen if they didn't have rules. Transition into why bicyclists should follow the same rules. Keep in mind the following rules specific to bicycles (Courtesy of the CDOT Bicycle and Pedestrian Program).

RIDE ON THE RIGHT:

- It is ok for a second grader to ride on the sidewalk until they are ready for the street (and have parental permission)
- Ride in the right lane with the flow of traffic.
- Ride as close to the right side of the right lane as safe and practical when being overtaken by another vehicle.
- Ride on the paved shoulder whenever a paved shoulder suitable for bicycle riding is present.
- Ride in the right lane except when:
 - Overtaking another bicycle or vehicle proceeding in the same direction
 - Preparing for a left turn
 - Avoiding hazardous conditions

RIDE IN A STRAIGHT LINE:

Riding predictably will make you more visible to motorists. It's easier for a motor vehicle driver to pass when you're riding in a straight line. Don't weave in and out of parked cars - you may disappear from motorists' sight and get squeezed out or clipped when you need to merge back into traffic. At intersections, stay on the road. Don't ride in the crosswalk and suddenly reappear on the road again. A driver may not see you and turn the corner and hit you.

NEVER RIDE AGAINST TRAFFIC:

Ride on the right, in the same direction as the traffic next to you. Riding with the flow of traffic makes you more visible. Riding on the left, against traffic, is illegal and dangerous. Motorists and other road users are not looking for bicyclists on the wrong side of the road. Riding the wrong way increases the chance of a head-on collision with vehicles moving with the normal traffic flow.

OBEY TRAFFIC SIGNS & SIGNALS:

Know and obey all traffic laws. Give motorists a reason to respect bicyclists! It is illegal and dangerous to ride through stop signs, red lights, impede traffic, ride several abreast, or ride the wrong way down a street. These illegal actions reinforce the myth that bicycle drivers are irresponsible and do not belong on the road. By driving your bicycle in a safe manner (watching out for yourself as well as others) you make it easier for motorists to treat you as an equal on the road and be polite to you or the next bicyclist they see.



USE HAND SIGNALS:

Use the proper hand signals for left or right turns and for slowing or stopping. When turning, you must signal continuously at least 100 feet before the turn and while you are stopped waiting to turn, unless use of your hand is needed to control your bicycle.

RIDING ON SIDEWALKS & IN CROSSWALKS:

You are allowed to ride your bicycle on a sidewalk or in a crosswalk unless it is prohibited by official traffic control devices or local ordinances. When riding on a sidewalk or in a crosswalk, you must observe all the rules and regulations applicable to pedestrians, yield the right-of-way to pedestrians, and give an audible signal before passing them. An audible signal can be a bell, horn or your voice saying, "Hello, passing on your left." However, riding on sidewalks is not recommended. Many crashes between bikes and cars occur on sidewalks at driveways and street crossings, especially when bicyclists ride against the flow of traffic. You should always walk your bicycle in busy shopping areas or on downtown sidewalks. Sidewalks are for pedestrians, not bicyclists, and you should be courteous and ride slowly and cautiously.

ABC Quick Check:

Using the bicycle shows students how to ensure that their bicycle is ready to ride. Students should follow these easy steps each time they go for a ride and ask a parent or bike mechanic to help if their bike doesn't pass the check!

A: Air! Make sure the tires are inflated. This can be done by squeezing the tire to see if it is rigid. Similar to car tires, the recommended inflation is printed on the sidewall of the tire.

B: Brakes! This is one of the most common things we at Bicycle Colorado see- brakes that don't function well or don't function at all. It's really hard to avoid dangerous situations when your bike won't stop or slow down! Students can check the brakes by squeezing handbrakes and rocking the bike back and forth or kicking the kick brake back. Hand brakes should keep the bike still while the bike is being rocked back and forth and should not compress all the way down to the handlebar.

C: Chain and Cranks! You should test to see if the chain is tight (not droopy) and well oiled. Rusty chains can seize or break. Cranks should be jiggled to see if the move from side to side. If they do the bolts on the cranks should be tightened.

Quick: Quickly check the bolts and quick-release levers! Explain that if these bolts/levers are not tight, the wheels could come off.

Check: Take your bike for a short spin to make sure everything works before heading off on a longer ride. It is much better to notice a problem when you are close to home than when you are far away!

You Check: Your bike is safe and ready to go. Are you?

- Helmet
- Bright colors/safety vest so cars and others can see you
- Pant leg rolled up
- Shoelaces and backpack straps tied
- Always bring your brain! Keeping a sharp mind, being aware and being prepared keeps you safe.



LESSON 4: ON BIKE SKILLS (45-60 MINUTES)

Once students have a grasp of helmets, rules of the road and ABC Check they are ready to get on bikes! We suggest doing this lesson on a day when some students can ride to school and let the class use their bikes. You may also be able to ask a local bike shop to send out a mechanic to make sure the bikes are ready to roll.

Objectives: Students should come away with this being able to control their bicycles.

Materials: Sidewalk chalk, cones, masking tape, helmets, bikes, volunteers.

Activity: Set up bicycle activity course using the Bicycle Rodeo diagrams included the Resources section. Fit and double check helmets on students. Walk students through the course for the first time and explain each station. It is recommended that no more than 6 students at a time are on the course; this keeps things under control and allows use of just a few bikes. Station volunteers at each station to help students master the stations.



THIRD GRADE LESSONS: INTRODUCTION TO HELMETS AND BICYCLING SKILLS

By third grade the majority of students have learned to ride a bicycle and students are gaining independence. This is a fantastic time to encourage students to bike safely and understand the importance of bicycle helmets. This lesson is broken into three sections ideally done during two class periods. It is also suggested that third graders have a refresher in pedestrian safety. You may want to review some of the first grade pedestrian lessons if you think this is necessary.

LESSON 1: HELMET SAFETY AND BRAIN INJURIES (15-20 MINUTES)

Objectives: Students should learn to understand the causes, effects, and prevention of brain injuries as well as how to properly fit a helmet.

Materials: Sample helmets, Empathy Station materials - optional (see resources for information about how to assemble the stations)

Vocabulary: Brain injury, paralysis, motor skills, coordination, balance

Discussion Points:

- 1) Why is it important to walk and bike more (to school, to friend's houses, to the park etc.)? Here are some good reasons:
 - Environment
 - Gas prices
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- 2) Helmets: Address safety on bicycles, scooters, skateboards etc. Ask: "What is the number one thing you can do to be safe on your bicycle?" Answer: WEAR YOUR HELMET! Ask students the following questions to encourage discussion.
 - Why is a helmet more important than knee pads? Elbow pads?
 - What does a helmet protect? What is inside of our heads that is so important?
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 - o Controls all of your senses (hearing, sight, smell, taste, touch)
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 - o Controls your speech, sleep, growth
 - What would it be like to lose any of the above? What would you miss the most?



3) Brain Injuries:

- What happens when you have a brain injury?
 - o Computer analogy: the brain is the computer for the whole body.
 - If computer keyboard is missing keys, can you type a letter? (compare to spinal cord injury and not being able to feel/touch an object)
 - If computer screen is scratched, can you see the whole picture? (compare to losing all
 of some of you sight from a brain injury)
 - If computer mouse is not connected, can you move the cursor? (compare to having a spinal cord injury and not being able to type letters)
 - If computer is not plugged in or is broken, will it still work? (compare to major brain injury- the brain cannot function the way it used to)
- How would a brain injury affect you?
- Can your brain heal itself? No!

Activity: Helmet Fit: Bring a student volunteer in front of the group for a sample helmet fit. Remind students that if they wear a helmet that isn't fitted correctly, it won't be able to do its job of protecting their brains. Have all students hold two fingers up and participate in the 2-Finger Test.

2-Finger Test: 1) Place two fingers across forehead (between bottom of helmet and top of eyebrows), 2) Place two fingers (in V-shape) underneath each ear (where straps should go), and 3) Place two fingers under the chin strap. As students are following along, adjust the sample helmet on the volunteer until it fits snugly. Have volunteer shake his/her head to demonstrate that the helmet is on just right.

Question: What are some reasons kids don't wear helmets? (Most important with 4th grade and up) Answer: Not cool, messes up hair, don't have one, can't afford one, too good to need one.

- What types of sports and jobs to people wear helmets for? (football, hockey, baseball, construction)
- If all of those people wear helmets do you think there is a reason?
- Even the best of the best and professionals still crash because things are unpredictable. We only have one brain, and we need to protect it EVERY time we ride!

Optional Activity: Empathy Stations (Additional time needed for this activity) Set up empathy stations around the room and break students into groups. These groups should rotate every 3-5 minutes so each student has the opportunity to try each station. Once students are finished have them clean up the stations and sit back down to talk again. Ask students how the brain injuries mimicked at each station would affect their daily lives.



LESSON 2: RULES OF THE ROAD AND BIKE CHECK (15-20 MINUTES)

At this age, students can begin to understand traffic and the rules of the road. This lesson consists of a discussion about traffic rules and bike check demonstration.

Objectives: Students should understand that bicycles have the same rights, rules and responsibilities as car drivers, but they are more vulnerable and need to take extra precautions. Students should also learn to check their bike to make sure it is safe to ride.

Materials: Sample road signs, bicycle, parts of the bicycle worksheet.

Discussion: Ask students to explain to the class why cars have rules and hypothesize about what might happen if they didn't have rules. Transition into why bicyclists should follow the same rules. Keep in mind the following rules specific to bicycles (Courtesy of the CDOT Bicycle and Pedestrian Program).

RIDE ON THE RIGHT:

- It is ok for a third grader to ride on the sidewalk until they are ready for the street (and have parental permission)
- Ride in the right lane with the flow of traffic.
- Ride as close to the right side of the right lane as safe and practical when being overtaken by another vehicle.
- Ride on the paved shoulder whenever a paved shoulder suitable for bicycle riding is present.
- Ride in the right lane except when:
 - Overtaking another bicycle or vehicle proceeding in the same direction
 - Preparing for a left turn
 - Avoiding hazardous conditions

RIDE IN A STRAIGHT LINE:

Riding predictably will make you more visible to motorists. It's easier for a motor vehicle driver to pass when you're riding in a straight line. Don't weave in and out of parked cars - you may disappear from motorists' sight and get squeezed out or clipped when you need to merge back into traffic. At intersections, stay on the road. Don't ride in the crosswalk and suddenly reappear on the road again. A driver may not see you and turn the corner and hit you.

NEVER RIDE AGAINST TRAFFIC:

Ride on the right, in the same direction as the traffic next to you. Riding with the flow of traffic makes you more visible. Riding on the left, against traffic, is illegal and dangerous. Motorists and other road users are not looking for bicyclists on the wrong side of the road. Riding the wrong way increases the chance of a head-on collision with vehicles moving with the normal traffic flow.

OBEY TRAFFIC SIGNS & SIGNALS:

Know and obey all traffic laws. Give motorists a reason to respect bicyclists! It is illegal and dangerous to ride through stop signs, red lights, impede traffic, ride several abreast, or ride the wrong way down a street. These illegal actions reinforce the myth that bicycle drivers are irresponsible and do not belong on the road. By



driving your bicycle in a safe manner (watching out for yourself as well as others) you make it easier for motorists to treat you as an equal on the road and be polite to you or the next bicyclist they see.

USE HAND SIGNALS:

Use the proper hand signals for left or right turns and for slowing or stopping. When turning, you must signal continuously at least 100 feet before the turn and while you are stopped waiting to turn, unless use of your hand is needed to control your bicycle.

RIDING ON SIDEWALKS & IN CROSSWALKS:

You are allowed to ride your bicycle on a sidewalk or in a crosswalk unless it is prohibited by official traffic control devices or local ordinances. When riding on a sidewalk or in a crosswalk, you must observe all the rules and regulations applicable to pedestrians, yield the right-of-way to pedestrians, and give an audible signal before passing them. An audible signal can be a bell, horn or your voice saying, "Hello, passing on your left." However, riding on sidewalks is not recommended. Many crashes between bikes and cars occur on sidewalks at driveways and street crossings, especially when bicyclists ride against the flow of traffic. You should always walk your bicycle in busy shopping areas or on downtown sidewalks. Sidewalks are for pedestrians, not bicyclists, and you should be courteous and ride slowly and cautiously.

ABC Quick Check:

Using the bicycle shows students how to ensure that their bicycle is ready to ride. Students should follow these easy steps each time they go for a ride and ask a parent or bike mechanic to help if their bike doesn't pass the check.

A: Air! Make sure the tires are inflated. This can be done by squeezing the tire to see if it is rigid. Similar to car tires, the recommended inflation is printed on the sidewall of the tire.

B: Brakes! This is one of the most common things we at Bicycle Colorado see- brakes that don't function well or don't function at all. It's really hard to avoid dangerous situations when your bike won't stop or slow down! Students can check the brakes by squeezing handbrakes and rocking the bike back and forth or kicking the kick brake back. Hand brakes should keep the bike still while the bike is being rocked back and forth and should not compress all the way down to the handlebar.

C: Chain and Cranks! You should test to see if the chain is tight (not droopy) and well oiled. Rusty chains can seize or break. Cranks should be jiggled to see if the move from side to side. If they do the bolts on the cranks should be tightened.

Quick: Quickly check the bolts and quick-release levers! Explain that if these bolts/levers are not tight, the wheels could come off.

Check: Take your bike for a short spin to make sure everything works before heading off on a longer ride. It is much better to notice a problem when you are close to home than when you are far away!



You Check: Your bike is safe and ready to go. Are you?

- Helmet
- Bright colors/safety vest so cars and others can see you
- Pant leg rolled up
- Shoelaces and backpack straps tied
- Always bring your brain! Keeping a sharp mind, being aware and being prepared keeps you safe.

LESSON 3: ON BIKE SKILLS (45-60 MINUTES)

Once students have a grasp of helmets, rules of the road and ABC Check they are ready to get on bikes! We suggest doing this lesson on a day when some students can ride to school and let the class use their bikes. You may also be able to ask a local bike shop to send out a mechanic to make sure the bikes are ready to roll.

Objectives: Students should come away with this being able to control their bicycles.

Materials: Sidewalk chalk, cones, masking tape, helmets, bikes, volunteers.

Activity: Set up bicycle activity course using the Bicycle Rodeo diagrams included the Resources section. Fit and double check helmets on students. Walk students through the course for the first time and explain each station. It is recommended that no more than 6 students at a time are on the course; this keeps things under control and allows use of just a few bikes. Station volunteers at each station to help students master the stations.



FOURTH GRADE LESSONS: INTRODUCTION TO BICYCLING SKILLS AND HELMETS

By fourth grade the majority of students have learned to ride a bicycle and students are gaining independence. This is a fantastic time to encourage students to bike safely and understand the importance of bicycle helmets. This lesson is broken into three sections ideally done during two class periods.

LESSON 1: HELMET SAFETY AND BRAIN INJURIES (15-20 MINUTES)

Objectives: Students should learn to understand the causes, effects, and prevention of brain injuries as well as how to properly fit a helmet.

Materials: Sample helmets, Empathy Station materials - optional (see resources for information about how to assemble the stations)

Vocabulary: Brain injury, paralysis, motor skills, coordination, balance

Discussion Points:

- 1) Why is it important to walk and bike more (to school, to friend's houses, to the park etc.)? Here are some good reasons:
 - Environment
 - Gas prices
 - Exercise
 - Enjoy time with friends/family
 - See your neighborhood
 - Have fun!
- 2) Helmets: Address safety on bicycles, scooters, skateboards etc. Ask: "What is the number one thing you can do to be safe on your bicycle?" Answer: WEAR YOUR HELMET! Ask students the following questions to encourage discussion.
 - Why is a helmet more important than knee pads? Elbow pads?
 - What does a helmet protect? What is inside of our heads that is so important?
 - What does our brain do?
 - o Controls your heartbeat, breathing, temperature, blood pressure
 - o Controls your movement, balance, coordination, sensation
 - o Controls all of your senses (hearing, sight, smell, taste, touch)
 - Controls your emotions, judgment, decision making, memory)
 - o Controls your speech, sleep, growth
 - What would it be like to lose any of the above? What would you miss the most?



3) Brain Injuries:

- What happens when you have a brain injury?
 - Computer analogy: the brain is the computer for the whole body.
 - If computer keyboard is missing keys, can you type a letter? (compare to spinal cord injury and not being able to feel/touch an object)
 - If computer screen is scratched, can you see the whole picture? (compare to losing all
 of some of you sight from a brain injury)
 - If computer mouse is not connected, can you move the cursor? (compare to having a spinal cord injury and not being able to type letters)
 - If computer is not plugged in or is broken, will it still work? (compare to major brain injury- the brain cannot function the way it used to)
- How would a brain injury affect you?
- Can your brain heal itself? No!

Activity: Helmet Fit: Bring a student volunteer in front of the group for a sample helmet fit. Remind students that if they wear a helmet that isn't fitted correctly, it won't be able to do its job of protecting their brains. Have all students hold two fingers up and participate in the 2-Finger Test.

2-Finger Test: 1) Place two fingers across forehead (between bottom of helmet and top of eyebrows), 2) Place two fingers (in V-shape) underneath each ear (where straps should go), and 3) Place two fingers under the chin strap. As students are following along, adjust the sample helmet on the volunteer until it fits snugly. Have volunteer shake his/her head to demonstrate that the helmet is on just right.

Question: What are some reasons kids don't wear helmets? (Most important with 4th grade and up) Answer: Not cool, messes up hair, don't have one, can't afford one, too good to need one.

- What types of sports and jobs to people wear helmets for? (football, hockey, baseball, construction)
- If all of those people wear helmets do you think there is a reason?
- Even the best of the best and professionals still crash because things are unpredictable. We only have one brain, and we need to protect it EVERY time we ride!

Optional Activity: Empathy Stations (Additional time needed for this activity) Set up empathy stations around the room and break students into groups. These groups should rotate every 3-5 minutes so each student has the opportunity to try each station. Once students are finished have them clean up the stations and sit back down to talk again. Ask students how the brain injuries mimicked at each station would affect their daily lives.



LESSON 2: RULES OF THE ROAD AND BIKE CHECK (15-20 MINUTES)

Fourth grade students are beginning to understand traffic and the rules of the road. This lesson consists of a discussion about traffic rules and bike check demonstration.

Objectives: Students should understand that bicycles have the same rights, rules and responsibilities as car drivers, but they are more vulnerable and need to take extra precautions. Students should also learn to check their bike to make sure it is safe to ride.

Materials: Sample road signs, bicycle, parts of the bicycle worksheet.

Discussion: Ask students to explain to the class why cars have rules and hypothesize about what might happen if they didn't have rules. Transition into why bicyclists should follow the same rules. Keep in mind the following rules specific to bicycles (Courtesy of the CDOT Bicycle and Pedestrian Program).

RIDE ON THE RIGHT:

- Ride in the right lane with the flow of traffic.
- Ride as close to the right side of the right lane as safe and practical when being overtaken by another vehicle.
- Ride on the paved shoulder whenever a paved shoulder suitable for bicycle riding is present.
- Ride in the right lane except when:
 - Overtaking another bicycle or vehicle proceeding in the same direction
 - Preparing for a left turn
 - Avoiding hazardous conditions

RIDE IN A STRAIGHT LINE:

Riding predictably will make you more visible to motorists. It's easier for a motor vehicle driver to pass when you're riding in a straight line. Don't weave in and out of parked cars - you may disappear from motorists' sight and get squeezed out or clipped when you need to merge back into traffic. At intersections, stay on the road. Don't ride in the crosswalk and suddenly reappear on the road again. A driver may not see you and turn the corner and hit you.

NEVER RIDE AGAINST TRAFFIC:

Ride on the right, in the same direction as the traffic next to you. Riding with the flow of traffic makes you more visible. Riding on the left, against traffic, is illegal and dangerous. Motorists and other road users are not looking for bicyclists on the wrong side of the road. Riding the wrong way increases the chance of a head-on collision with vehicles moving with the normal traffic flow.

OBEY TRAFFIC SIGNS & SIGNALS:

Know and obey all traffic laws. Give motorists a reason to respect bicyclists! It is illegal and dangerous to ride through stop signs, red lights, impede traffic, ride several abreast, or ride the wrong way down a street. These illegal actions reinforce the myth that bicycle drivers are irresponsible and do not belong on the road. By driving your bicycle in a safe manner (watching out for yourself as well as others) you make it easier for motorists to treat you as an equal on the road and be polite to you or the next bicyclist they see.



USE HAND SIGNALS:

Use the proper hand signals for left or right turns and for slowing or stopping. When turning, you must signal continuously at least 100 feet before the turn and while you are stopped waiting to turn, unless use of your hand is needed to control your bicycle.

RIDING ON SIDEWALKS & IN CROSSWALKS:

You are allowed to ride your bicycle on a sidewalk or in a crosswalk unless it is prohibited by official traffic control devices or local ordinances. When riding on a sidewalk or in a crosswalk, you must observe all the rules and regulations applicable to pedestrians, yield the right-of-way to pedestrians, and give an audible signal before passing them. An audible signal can be a bell, horn or your voice saying, "Hello, passing on your left." However, riding on sidewalks is not recommended. Many crashes between bikes and cars occur on sidewalks at driveways and street crossings, especially when bicyclists ride against the flow of traffic. You should always walk your bicycle in busy shopping areas or on downtown sidewalks. Sidewalks are for pedestrians, not bicyclists, and you should be courteous and ride slowly and cautiously.

ABC Quick Check:

Using the bicycle shows students how to ensure that their bicycle is ready to ride. Students should follow these easy steps each time they go for a ride and ask a parent or bike mechanic to help if their bike doesn't pass the check.

A: Air! Make sure the tires are inflated. This can be done by squeezing the tire to see if it is rigid. Similar to car tires, the recommended inflation is printed on the sidewall of the tire.

B: Brakes! This is one of the most common things we at Bicycle Colorado see- brakes that don't function well or don't function at all. It's really hard to avoid dangerous situations when your bike won't stop or slow down! Students can check the brakes by squeezing handbrakes and rocking the bike back and forth or kicking the kick brake back. Hand brakes should keep the bike still while the bike is being rocked back and forth and should not compress all the way down to the handlebar.

C: Chain and Cranks! You should test to see if the chain is tight (not droopy) and well oiled. Rusty chains can seize or break. Cranks should be jiggled to see if the move from side to side. If they do the bolts on the cranks should be tightened.

Quick: Quickly check the bolts and quick-release levers! Explain that if these bolts/levers are not tight, the wheels could come off.

Check: Take your bike for a short spin to make sure everything works before heading off on a longer ride. It is much better to notice a problem when you are close to home than when you are far away!



You Check: Your bike is safe and ready to go. Are you?

- Helmet
- Bright colors/safety vest so cars and others can see you
- Pant leg rolled up
- Shoelaces and backpack straps tied
- Always bring your brain! Keeping a sharp mind, being aware and being prepared keeps you safe.

LESSON 3: ON BIKE SKILLS (45-60 MINUTES)

Once students have a grasp of helmets, rules of the road and ABC Check they are ready to get on bikes! We suggest doing this lesson on a day when some students can ride to school and let the class use their bikes. You may also be able to ask a local bike shop to send out a mechanic to make sure the bikes are ready to roll.

Objectives: Students should come away with this being able to control their bicycles.

Materials: Sidewalk chalk, cones, masking tape, helmets, bikes, volunteers.

Activity: Set up bicycle activity course using the Bicycle Rodeo diagrams included the Resources section. Fit and double check helmets on students. Walk students through the course for the first time and explain each station. It is recommended that no more than 6 students at a time are on the course; this keeps things under control and allows use of just a few bikes. Station volunteers at each station to help students master the stations.



FIFTH GRADE LESSONS: INTRODUCTION TO BICYCLING SKILLS AND HELMETS

By fifth grade the majority of students have learned to ride a bicycle and students are gaining independence. This is a fantastic time to encourage students to bike safely and understand the importance of bicycle helmets. This lesson is broken into three primary sections ideally done during two class periods. An additional third day or after school program can be done on bicycle maintenance focusing on the most common repair: fixing a flat tire.

LESSON 1: HELMET SAFETY AND BRAIN INJURIES (15-20 MINUTES)

Objectives: Students should learn to understand the causes, effects, and prevention of brain injuries as well as how to properly fit a helmet.

Materials: Sample helmets, Empathy Station materials - optional (see resources for information about how to assemble the stations)

Vocabulary: Brain injury, paralysis, motor skills, coordination, balance

Discussion Points:

- 1) Why is it important to walk and bike more (to school, to friend's houses, to the park etc.)? Here are some good reasons:
 - Environment
 - Gas prices
 - Exercise
 - Enjoy time with friends/family
 - See your neighborhood
 - Have fun!
- 2) Helmets: Address safety on bicycles, scooters, skateboards etc. Ask: "What is the number one thing you can do to be safe on your bicycle?" Answer: WEAR YOUR HELMET! Ask students the following questions to encourage discussion.
 - Why is a helmet more important than knee pads? Elbow pads?
 - What does a helmet protect? What is inside of our heads that is so important?
 - What does our brain do?
 - Controls your heartbeat, breathing, temperature, blood pressure
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 - Controls your emotions, judgment, decision making, memory)
 - Controls your speech, sleep, growth
 - What would it be like to lose any of the above? What would you miss the most?



3) Brain Injuries:

- What happens when you have a brain injury?
 - Computer analogy: the brain is the computer for the whole body.
 - If computer keyboard is missing keys, can you type a letter? (compare to spinal cord injury and not being able to feel/touch an object)
 - If computer screen is scratched, can you see the whole picture? (compare to losing all
 of some of you sight from a brain injury)
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 - If computer is not plugged in or is broken, will it still work? (compare to major brain injury- the brain cannot function the way it used to)
- How would a brain injury affect you?
- Can your brain heal itself? No!

Activity: Helmet Fit: Bring a student volunteer in front of the group for a sample helmet fit. Remind students that if they wear a helmet that isn't fitted correctly, it won't be able to do its job of protecting their brains. Have all students hold two fingers up and participate in the 2-Finger Test.

2-Finger Test: 1) Place two fingers across forehead (between bottom of helmet and top of eyebrows), 2) Place two fingers (in V-shape) underneath each ear (where straps should go), and 3) Place two fingers under the chin strap. As students are following along, adjust the sample helmet on the volunteer until it fits snugly. Have volunteer shake his/her head to demonstrate that the helmet is on just right.

Question: What are some reasons kids don't wear helmets? (Most important with 4th grade and up) Answer: Not cool, messes up hair, don't have one, can't afford one, too good to need one.

- What types of sports and jobs to people wear helmets for? (football, hockey, baseball, construction)
- If all of those people wear helmets do you think there is a reason?
- Even the best of the best and professionals still crash because things are unpredictable. We only have one brain, and we need to protect it EVERY time we ride!

Optional Activity: Empathy Stations (Additional time needed for this activity) Set up empathy stations around the room and break students into groups. These groups should rotate every 3-5 minutes so each student has the opportunity to try each station. Once students are finished have them clean up the stations and sit back down to talk again. Ask students how the brain injuries mimicked at each station would affect their daily lives.



LESSON 2: RULES OF THE ROAD AND BIKE CHECK (15-20 MINUTES)

Fourth grade students are beginning to understand traffic and the rules of the road. This lesson consists of a discussion about traffic rules and bike check demonstration.

Objectives: Students should understand that bicycles have the same rights, rules and responsibilities as car drivers, but they are more vulnerable and need to take extra precautions. Students should also learn to check their bike to make sure it is safe to ride.

Materials: Sample road signs, bicycle, parts of the bicycle worksheet.

Discussion: Ask students to explain to the class why cars have rules and hypothesize about what might happen if they didn't have rules. Transition into why bicyclists should follow the same rules. Keep in mind the following rules specific to bicycles (Courtesy of the CDOT Bicycle and Pedestrian Program).

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- Pant leg rolled up
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- Always bring your brain! Keeping a sharp mind, being aware and being prepared keeps you safe.

LESSON 3: ON BIKE SKILLS (45-60 MINUTES)

Once students have a grasp of helmets, rules of the road and ABC Check they are ready to get on bikes! We suggest doing this lesson on a day when some students can ride to school and let the class use their bikes. You may also be able to ask a local bike shop to send out a mechanic to make sure the bikes are ready to roll.

Objectives: Students should come away with this being able to control their bicycles.

Materials: Sidewalk chalk, cones, masking tape, helmets, bikes, volunteers.

Activity: Set up bicycle activity course using the Bicycle Rodeo diagrams included the Resources section. Fit and double check helmets on students. Walk students through the course for the first time and explain each station. It is recommended that no more than 6 students at a time are on the course; this keeps things under control and allows use of just a few bikes. Station volunteers at each station to help students master the stations.

LESSON 4: HOW TO FIX A FLAT TIRE (REQUIRES ADDITIONAL TIME)

This lesson is important, but time consuming. We suggest doing this after school one day when students have their own bikes. It is critical to have a few volunteers who have knowledge of bicycles to help out.

Objective: Students will learn to fix the most common bicycle problem, a flat tire.

Materials: Bicycles, pumps, patch kits, spare tubes, tire levers.

Activity: Using the Fix a Flat worksheet included in the Resources section to demonstrate how to remove a wheel, dismount a tire, inspect and patch a tube then re-insert the tube and put the wheel back on the bicycle.