

**Are you wondering how design and coding help you and your learners connect to the world around you? Check out these lessons to explore different connections and inspire new ideas to bring people together.**

Have fun exploring these lessons that help us connect together with our neighbors. Then use the prompts to inspire your builders to create new and unique ways to connect with others anywhere in the world.

Grades	Materials and Resources	Lesson Plan	Design and Coding	Connect Together Prompt
K-1	Coding Express	Transportation connects us to others in our neighborhood, get to and from our home and school, and explore new places to play and learn.  Build a <a href="#">Y-Shaped Track</a> to explore your neighborhood.	Design a Y-shaped track to visit places in your neighborhood.  Use the coding blocks to place if-then statements for the journey.	Create your own design for a transportation system that will help you connect with others in your neighborhood.
2-3	SPIKE™ Essential	Observing plants and animals is a fun way to connect with the world while learning with others.  Create an <a href="#">Animal Alarm</a> so you don't miss any animals as you sleep!	Design an alarm to get alerts when animals are nearby.  Use Icon Blocks to code an alarm with different lights and sounds.	Design an alert system that will help others in your neighborhood connect with nature.
4-5	SPIKE™ Essential	Games are a great way to have fun while connecting with family and friends.  Explore <a href="#">Bowling Fun</a> by building a bowling game you can play with others.	Design a bowling machine to launch a ball at bowling pins.  Use Word Block coding to program the machine to get a strike.	Create a community game that will bring together friends to connect over fun challenges.
6-8	SPIKE™ Prime	Solving problems connects us all together as we work to make the world a better place.  Build a <a href="#">Super Cleanup</a> machine to help clean keep the neighborhood clean.	Design a cleanup grabber that can pick up things to clean up your space.  Use Word Block or Python coding to program the grabber to pick up big and small things in your space.	Create a program that helps your neighborhood connect together to change the world in positive ways.
All Ages	Any LEGO® Bricks	Building bridges let's people connect together when separated by obstacles.  Design a bridge that connects people separated by an obstacle.	Design a bridge that can connect two places separated by a highway, a river, or an ocean.  Think about the functions your bridge needs. Develop a pseudocode to describe bridge features like raising or lowering, using lights, and directing traffic.	Design a bridge that connects people together allowing people to travel, explore, and work anywhere.