

# Exploring Innovative Transportation

## LEGO® Education SPIKE™ Essential Lesson Recommendations



LEGO Education Lesson Recommendation	Grade Level	Topic	Content Considerations
<a href="#">Arctic Ride</a>	1-2	Automated Vehicles and Delivery Robots	Explore navigation in automated vehicles and consider travel across different terrain
<a href="#">Cave Car</a>	1-2	Automated Vehicles and Delivery Robots	Explore the features of vehicles that enable safe travel
<a href="#">The Fast Lane</a>	1-2	Connected Vehicles and Intersections	Explore and discuss the use of sensors to automate processes in connected vehicles
<a href="#">Preparing for Weather</a>	3	Smart City Planning	Explore and discuss smart city planning to prepare for weather conditions and build sustainability
<a href="#">Solving Problems When Environments Change</a>	3	Smart City Planning	Explore and discuss smart city planning considering how new construction will impact the environment
<a href="#">How Eyes See</a>	4	Connected Vehicles and Intersections	Explore the features of vehicles that enable safe travel
<a href="#">Energy Resources</a>	4	Smart City Planning	Explore and discuss smart city planning and how cities use and produce energy
<a href="#">Trash Monster Machine</a>	3-5	Smart City Planning	Explore and discuss smart city planning and how cities process waste and recycle
<a href="#">Taxi! Taxi!</a>	3-5	Automated Vehicles and Delivery Robots	Explore and discuss navigation using automated vehicles
<a href="#">Hovering Helicopter</a>	3-5	Drones, Advanced Air Mobility, and Vertiports	Explore and discuss air mobility and vertiport planning
<a href="#">Cable Car</a>	3-5	Smart City Planning	Explore and discuss smart city planning and alternative transportation mechanisms
<a href="#">Big Bus</a>	3-5	Electric Vehicles and Charging Stations	Explore and discuss smart city planning and how cities use and produce energy
<a href="#">Get Around Town</a>	3-5	Electric Vehicles and Charging Stations	Explore and discuss navigation using automated vehicles
<a href="#">Safe Crossing</a>	3-5	Smart City Planning	Explore and discuss smart city planning with a focus on mitigation of human impact on the environment



## LEGO® Education SPIKE™ Prime Lesson Recommendations

LEGO Education Lesson Recommendation	Grade Level	Topic	Content Considerations
<a href="#">Hopper Race</a>	6-8	Automated Vehicles and Delivery Robots	Explore and discuss the engineering of delivery robots and prototyping locomotive features
<a href="#">Out of Order</a>	6-8	Automated Vehicles and Delivery Robots	Explore and discuss engineering of automated vehicles and the debugging process
<a href="#">Track Your Packages</a>	6-8	Automated Vehicles and Delivery Robots	Explore and discuss delivery robots and the tracking of deliveries
<a href="#">Automate It</a>	6-8	Automated Vehicles and Delivery Robots	Explore and discuss the use of automation in the shipping process
<a href="#">Training Camp 1: Driving Around</a>	6-8	Automated Vehicles and Delivery Robots and Connected Vehicles and Intersections	Explore and discuss automated vehicles and the associated programming
<a href="#">Training Camp 2: Playing With Objects</a>	6-8	Automated Vehicles and Delivery Robots	Explore and discuss the use of sensors in programming automated vehicles
<a href="#">Training Camp 3: Reacting to Lines</a>	6-8	Automated Vehicles and Delivery Robots	Explore and discuss the use of sensors in programming automated vehicles
<a href="#">This is Uphill</a>	6-8	Vehicles and Charging Stations	Explore and discuss potential and kinetic energy associated with vehicle movement
<a href="#">Going the Distance</a>	6-8	Automated Vehicles and Delivery Robots	Explore and discuss the programming and use of sensors in automated vehicles
<a href="#">Smart House: Go Green</a>	Grades 6-8	Smart City Planning	Explore and discuss smart city planning to minimize human impact on the environment



## Additional LEGO® Education Resources

LEGO Education Lesson Recommendation	Grade Level	Topic	Content Considerations
<a href="#">Build to Launch</a>	All grade levels; Focus on Grades 3-8	Automated Vehicles and Delivery Robots	Explore and discuss automated vehicles used in space missions
<a href="#">Rebuild the World: Career Toolkit</a> (all) <ul style="list-style-type: none"><li>• <a href="#">Racing</a></li></ul>	All grade levels; Focus on Grades 3-5	Electric Vehicles and Charging Stations	Explore and discuss career connections in transportation
<a href="#">Build The Change: Thinking Outside the Bus</a>	Grades 3-5	Electric Vehicles and Charging Stations	Explore and discuss the circular economy of electric school buses in the United States