

Obstacle Course Challenge Scenario

Essential Question (EQ): How can we develop our mechanical intelligence with Lego?

To be successful in a trade and technical career, you need to understand how smaller systems work together in a mechanical system to accomplish a task and troubleshoot when things go wrong. Legos provide a unique opportunity to practice these skills in a fun way.

You are challenged to develop your mechanical knowledge and skills through a series of Lego challenges your teacher will provide. After building these, your teacher will challenge each group to design a Lego car to navigate through a series of challenges. Your goal will be to design your vehicle to overcome each challenge in the least amount of time. Good luck!

As part of your design, you will need to keep good records of your design process. This includes research notes, brainstormed ideas, a plan of action, and creation and improvement notes from the building and testing process.

Deliverables include:

- Reflections from each Lego challenge
- Design process portfolio
- Final Lego vehicle
- Final Lego vehicle code