



FIRST
LEGO
LEAGUE

EXPLORE

ENGINEERING NOTEBOOK



Team Journey

Explore the challenge



Learn about Core Values



Explore, create, test, and share as you go through the sessions

Create team model



Design team poster

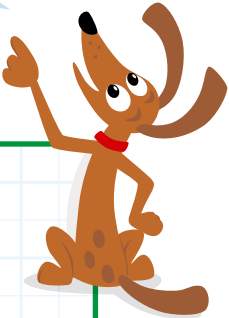


Celebrate at an event



Core Values

Draw or write an example of your team demonstrating each Core Value when directed in the sessions!



DISCOVERY

We explore new skills and ideas.

Grid area for Discovery.

INCLUSION

We respect each other and embrace our differences.

Grid area for Inclusion.

INNOVATION

We use creativity and persistence to solve problems.

Grid area for Innovation.

TEAMWORK

We are stronger when we work together.

Grid area for Teamwork.

IMPACT

We apply what we learn to improve our world.

Grid area for Impact.

FUN

We enjoy and celebrate what we do!

Grid area for Fun.



Use the Core Values to guide your team through your journey.

Have lots of FUN as you develop new skills and work together.



Session 1

Tasks (20 minutes)

- Talk about Ruby and Jacob's questions.
- Use the space below to capture your inventive ideas!
- Follow the building instructions in Book 1 to make the truck.
- Look at the mat and discover how the truck works!

Your team needs:



What products need to be transported to and from your community?

How is cargo packed and loaded onto vehicles?

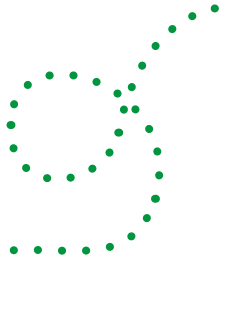


Large lined circular areas for writing answers to the questions.



Let's Explore

Your team needs:



Tasks (20 minutes)

- Circle the routes the truck can take on the mat image.
- Draw your design of a truck that transports cargo.
- Label what products are in the cargo the truck transports.
- Share your creation with your team!
- Work as a team to build your amazing truck designs using the LEGO® prototyping pieces (Bag 4).
- Place your built trucks on the mat and show how they work.

What have you discovered? Share with your team!



DESIGNS

Draw your designs!

A large grid area for drawing designs, with a green border and a small 'L' icon in the top right corner.

Name:

Team name:

Let's think of ideas for different ways to transport cargo.



Let's explore how cargo is transported to places all over the world.



Let's create a team model showing how cargo is sorted and transported to its destinations.

Share your ideas, your team model, and what your team has learned with others.

