



# *FIRST* LEGO LEAGUE CHALLENGE

## Virtual Field Trips



**TEAM NAME:**

**TEAM NUMBER:**

**Updated: August 2021**

# Instructions



As mentioned in our [Pre-Season Guide](#), A fun way to prepare for CARGO CONNECT is to go on some inspiring field trips. These trips are to spark ideas and get you thinking about the topic. If you cannot visit in person because of the pandemic or because you do not have the opportunity, try going on some virtual field trips.

This guide provides you some examples of how to use virtual opportunities this season.

# Visit a Cargo Port

Check online to see what the nearest port is to you and/or explore some of the ports listed below.

Sample Virtual Port Tours:

[Vancouver, USA](#)

[Newcastle, Australia](#)

[London Gateway Port](#)

[Suez Port/Canal](#)



## Fun Game

[Steer Through the Suez Canal](#)

### Questions to think about:

1. What type of cargo goes through the port and how does it get there?
2. What equipment do they use at the port?
3. How are ports different or the same?
4. Are there any problems a port may face?
5. How much does it cost to move cargo in a port?
6. How long does it take to unload/load?
7. How do they prevent damage to the containers?
- 8.
- 9.
- 10.

## Efficiency

### Project Spark

Being more efficient with the way we transport cargo is beneficial for many reasons.

How can you make the journey of cargo more efficient?

#### Think about...

- The cost of transporting cargo.
- The time it takes to transport cargo.
- The energy used to transport cargo.
- Ensuring cargo arrives undamaged.

*The models you built this session relate to missions in the Robot Game that represent improving the efficiency of transporting cargo.*