



## HANDS-ON ACTIVITY

# How Can It Cross the Road?

## Objective

**Collaborate** with a group to design and model a solution to help caribou migrate. A highway blocks the path they once used. Now they need help in finding a new route around the human-made change to their environment

What question will you investigate to meet this objective?

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## Materials

- craft sticks
- tape
- cardboard
- glue
- chenille sticks
- wood
- clay
- other materials you choose

## Procedure

**STEP 1** Migrating caribou have to cross a highway that blocks their migratory path. Think about the problems, and then write them down clearly.

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**STEP 2** Work with a group. Together, brainstorm solutions to the problem of the migrating caribou. How might you design a solution to help the caribou cross the highway? Or will you redesign the highway?

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Name \_\_\_\_\_

**STEP 3** Work with your group to design a solution. Draw or build your design with materials of your choice.

**STEP 4** Label the parts of your design or model. Write what those parts are and how the parts solve the problem below.



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### Analyze Your Results

**STEP 5** Compare your design solutions to two other groups in the class. How are the designs similar? How are they different?

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**STEP 6** Which group do you think has the design solution that will work the best? Explain why you think so.

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Name \_\_\_\_\_

**STEP 7** What problems does each model create?

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### **Draw Conclusions**

**STEP 8** Make a claim about the problems or issues your design may have, if any.

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**STEP 9** How might you improve your design? Explain.

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**STEP 10** How can humans affect animal migration patterns? Cite evidence.

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**STEP 11** What other questions do you still have about animal migration:

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