# Bridge Evaluation 1

Location 1: Connect Craggy Rock to the neighboring city

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" that allows cars to get on and off the bridge?
- ○ Is the bridge span at least 8 inches wide in the model so it can have multiple lanes?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 25 inches long in the model to make it across the river?
- ○ Are there safety features that ensure cars don't fall off the sides of the bridge?
- ○ Can your bridge safely hold weights all the way across the bridge in all of the lanes? (Basically cover the bridge with a layer of weights)
- ○ Is your bridge stable? Does it lean, sag, or sway when "cars" (weights) are on it?

What improvements do you need to make?

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How much money do you have remaining to make improvements? _____

# Bridge Evaluation 1

Location 2: Bike Bridge that Connects two Bike Paths

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" that allows bikes to get on and off the bridge?
- ○ Is the bridge span at least 3 inches wide in the model so bike riders could ride side by side?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 12 inches long in the model to make it across the stream?
- ○ Are there safety features that ensure bike riders don't fall off the sides of the bridge?
- ○ Can your bridge safely hold weights all the way across the bridge? (Basically make a line of weights across the bridge)
- ○ Is your bridge stable? Does it lean, sag, or sway when "bike riders" (weights) are on it?

What improvements do you need to make?

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How much money do you have remaining to make improvements? _____

# Bridge Evaluation 1

Location 3: Highway bridge across a busy ship harbor

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" that allows cars to get on and off the bridge?
- ○ Is the bridge span at least 4 inches wide in the model so there can be at least two lanes of cars?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 30 inches long in the model to make it across the ocean bay?
- ○ Is the span at least 8 inches high off the water to allow boats to pass under?
- ○ Are there safety features that ensure cars don't fall off the sides of the bridge?
- ○ Can your bridge safely hold weights all the way across the bridge in all lanes? (Basically cover the entire bridge with one layer of weights)
- ○ Is your bridge stable? Does it lean, sag, or sway when "cars" (weights) are on it?

What improvements do you need to make?

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How much money do you have remaining to make improvements? _____

# Bridge Evaluation 1

Location 4: Railroad bridge that brings a train to the national park

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" that allows the train to get on and off the bridge?
- ○ Is the bridge span at least 4 inches wide in the model so there is enough room for two trains to be traveling in opposite directions at the same time?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 15 inches long in the model to make it across the deep river gorge?
- ○ Are there safety features that ensure trains don't fall off the sides of the bridge in case they come off the track?
- ○ Can your bridge safely hold weights all the way across the bridge in all lanes? (Basically cover the entire bridge with one layer of weights)
- ○ Is your bridge stable? Does it lean, sag, or sway when "trains" (weights) are on it?

What improvements do you need to make?

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How much money do you have remaining to make improvements? _____

# Bridge Evaluation 2

Location 1: Connect Craggy Rock to the neighboring city

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" THAT IS NOT TOO STEEP and allows cars (Sphero Indi) to get on and off the bridge?
- ○ Is the bridge span at least 8 inches wide in the model so it can have multiple lanes?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 25 inches long in the model to make it across the river?
- ○ Are there safety features that ensure cars don't fall off the sides of the bridge?
- ○ Can your bridge safely hold weights all the way across the bridge in all of the lanes? (Basically cover the bridge with a layer of weights)
- ○ Is your bridge stable? Does it lean, sag, or sway when "cars" (weights) are on it?

How much money do you have remaining from your budget? _____

# Bridge Evaluation 2

Location 2: Bike Bridge that Connects two Bike Paths

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" THAT IS NOT TOO STEEP and allows bikes (Sphero Indi) to get on and off the bridge?
- ○ Is the bridge span at least 3 inches wide in the model so bike riders could ride side by side?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 12 inches long in the model to make it across the stream?
- ○ Are there safety features that ensure bike riders don't fall off the sides of the bridge?
- ○ Can your bridge safely hold weights all the way across the bridge? (Basically make a line of weights across the bridge)
- ○ Is your bridge stable? Does it lean, sag, or sway when "bike riders" (weights) are on it?

How much money do you have remaining from your budget? _____

# Bridge Evaluation 2

Location 3: Highway bridge across a busy ship harbor

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" THAT IS NOT TOO STEEP and allows cars (Sphero Indi) to get on and off the bridge?
- ○ Is the bridge span at least 4 inches wide in the model so there can be at least two lanes of cars?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 30 inches long in the model to make it across the ocean bay?
- ○ Is the span at least 8 inches high off the water to allow boats to pass under?
- ○ Are there safety features that ensure cars don't fall off the sides of the bridge?
- ○ Can your bridge safely hold weights all the way across the bridge in all lanes? (Basically cover the entire bridge with one layer of weights)
- ○ Is your bridge stable? Does it lean, sag, or sway when "cars" (weights) are on it?

How much money do you have remaining from your budget? _____

# Bridge Evaluation 2

Location 4: Railroad bridge that brings a train to the national park

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" THAT IS NOT TOO STEEP and allows trains (Sphero Indi) to get on and off the bridge?
- ○ Is the bridge span at least 4 inches wide in the model so there is enough room for two trains to be traveling in opposite directions at the same time?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 15 inches long in the model to make it across the deep river gorge?
- ○ Are there safety features that ensure trains don't fall off the sides of the bridge in case they come off the track?
- ○ Can your bridge safely hold weights all the way across the bridge in all lanes? (Basically cover the entire bridge with one layer of weights)
- ○ Is your bridge stable? Does it lean, sag, or sway when "trains" (weights) are on it?

How much money do you have remaining from your budget? _____

# Peer Evaluation

Location 1: Connect Craggy Rock to the neighboring city

Evaluator's Team Color: _____

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" that allows cars to get on and off the bridge?
- ○ Is the bridge span at least 8 inches wide in the model so it can have multiple lanes?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 25 inches long in the model to make it across the river?
- ○ Are there safety features that ensure cars don't fall off the sides of the bridge?
- ○ Can the bridge safely hold weights all the way across the bridge in all of the lanes? (Basically cover the bridge with a layer of weights)
- ○ Is the bridge stable? Does it lean, sag, or sway when "cars" (weights) are on it?

What improvements do you think could be made to this bridge?

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# Peer Evaluation

Location 2: Bike Bridge that Connects two Bike Paths

Evaluator's Team Color: _____

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" that allows bikes to get on and off the bridge?
- ○ Is the bridge span at least 3 inches wide in the model so bike riders could ride side by side?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 12 inches long in the model to make it across the stream?
- ○ Are there safety features that ensure bike riders don't fall off the sides of the bridge?
- ○ Can your bridge safely hold weights all the way across the bridge? (Basically make a line of weights across the bridge)
- ○ Is your bridge stable? Does it lean, sag, or sway when "bike riders" (weights) are on it?

What improvements do you think could be made to this bridge?

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# Peer Evaluation

Location 3: Highway bridge across a busy ship harbor

Evaluator's Team Color: _____

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" that allows cars to get on and off the bridge?
- ○ Is the bridge span at least 4 inches wide in the model so there can be at least two lanes of cars?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 30 inches long in the model to make it across the ocean bay?
- ○ Is the span at least 8 inches high off the water to allow boats to pass under?
- ○ Are there safety features that ensure cars don't fall off the sides of the bridge?
- ○ Can the bridge safely hold weights all the way across the bridge in all lanes? (Basically cover the entire bridge with one layer of weights)
- ○ Is the bridge stable? Does it lean, sag, or sway when "cars" (weights) are on it?

What improvements do you think could be made to this bridge?

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# Peer Evaluation

Location 4: Railroad bridge that brings a train to the national park

Evaluator's Team Color: _____

Did it meet the criteria?

- ○ Does the bridge have an "on ramp" and "off ramp" that allows the train to get on and off the bridge?
- ○ Is the bridge span at least 4 inches wide in the model so there is enough room for two trains to be traveling in opposite directions at the same time?
- ○ Is the bridge span from the beginning of the on ramp to the end of the on ramp at least 15 inches long in the model to make it across the deep river gorge?
- ○ Are there safety features that ensure trains don't fall off the sides of the bridge in case they come off the track?
- ○ Can the bridge safely hold weights all the way across the bridge in all lanes? (Basically cover the entire bridge with one layer of weights)
- ○ Is the bridge stable? Does it lean, sag, or sway when "trains" (weights) are on it?

What improvements do you think could be made to this bridge?

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