

TARWATER ELEMENTARY SCHOOL STEM LAB

Activity ID: I-3

Activity Name: Build a Bridge

MATERIALS:

Materials Provided in Bin:

Item:	Quantity:	Notes:
Lesson Plan	1	14 additional books
twine	1 roll	
tape	10 rolls	
Modeling clay	1 package	
Popsicle sticks	5 packages	50 sticks per package
Straws	1 box	250 straws
Plastic cups	50	
Toy cars	15	
Wood block	1	
Index cards	3 packages	100 per package
paper	1 package	500 sheets
Ruler	1	
Paper clips	4 boxes	
Plastic bags	15	

Materials In STEM lab or Classroom (Common Items):

Item:	Quantity:	Notes:
None		

Materials Teacher/Parents Need to Provide:

Item:	Quantity:	Notes:
None		

WHAT ARE WE DOING?

Designing a bridge

VIDEO / LINKS:

n/a

SAFETY NOTES:

n/a

SCIENCE TERMS:

Arch bridge - a bridge made from one or more arches and abutments

Abutment - a part of an arch bridge that stands at either end of the arch to maintain the arch's shape

Engineer - a person who uses his or her creativity and understanding of mathematics and science to design things that solve problems

Span - the length between two bridge supports

STEPS:

See handouts

QUESTIONS TO ASK STUDENTS:

How could you improve your bridge?

What other materials could you use to make a bridge

What's the biggest bridge you've ever seen?

CLEAN-UP:

Into the **Bin** = Lesson and undamaged materials

Back to Lab/Classroom = n/a

Trash/Recycle = damaged materials

IF RUNNING OUT OF A SUPPLY IN THE BIN, PLEASE
CONTACT LAURIE JONES IN THE OFFICE (X4307)
JONES.LAURIE@CUSD80.COM