

STOMP Spring 2011 – Activity Outline

Date	Activity Description
2/11	Build a chair for an elephant! Students will go through the concepts of sturdy building by constructing a sturdy chair that can hold a toy elephant.
2/18	Pulley Wall Students will build a pulley and use the NXT motor to pull up a load, e.g. a “bucket” containing dead batteries.
3/4	Build your Favorite Animal Students will revisit the concept of sturdy building by using the LEGO pieces to build models of their favorite animals.
3/11	Build a Sturdy Car with Ramp Test extension Students will build a sturdy car that can travel up a ramp. For an extra challenge, each car will have to pull up another car up the ramp.
3/18	Snow! Snow! Snow! By modifying the cars they built previously, the students will have to clear a path containing “snow” – we can simulate this using wet paper towels.
4/1	Paper Towers A little break from LEGO building – students will use limited supplies of paper, index cards, paper clips and tape to build a paper tower that can hold a stack of books.
4/8	Final Activity: Build a Bridge that your car can drive over For the final project, the students will have two weeks to build a bridge using popsicle sticks and glue.
4/15	Continuation
4/29	Final Test Students will test their bridge by trying to drive their NXT cars over it, or at least by placing the cars on the bridge to test how much load it can take.