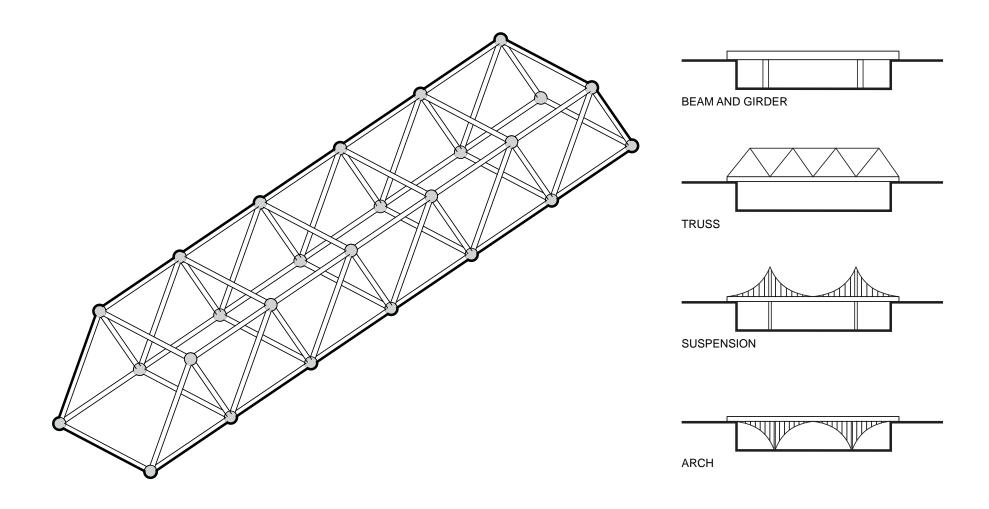
LESSON 1: STRUCTURAL SPAN



MATERIAL REQUIRED

- 1. STRAWS
- 2. TAPE

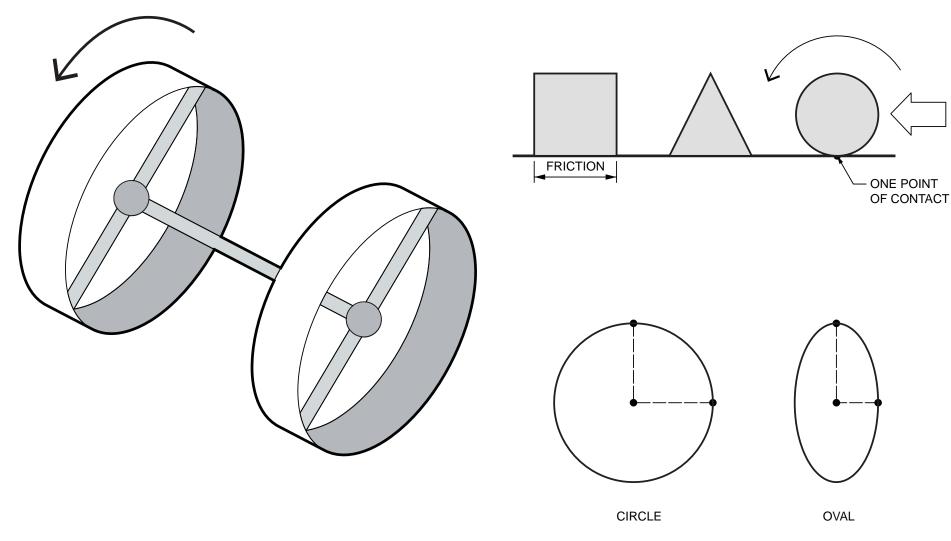
TIME REQUIRED 30 MIN

CONCEPT

- 1. VARIOUS BRIDGE TYPE AND EXAMPLES
- 2. TRUSS CONSTRUCTION
- 3. TRIANGLE VS RECTANGLE



LESSON 2: MECHANICAL MOVEMENT



MATERIAL REQUIRED

- 1. STRAWS
- 2. TAPE
- 3. NEWSPAPER

CONCEPT

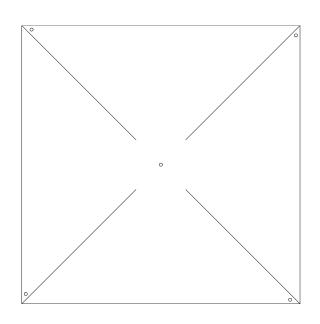
- 1. FRICTION
- 2. BASIC ASSEMBLY
- 3. CIRCLE VS OVAL

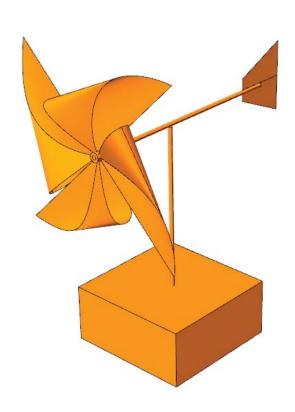
TIME REQUIRED 30 MIN

MAINTAIN EQUAL RADIUS



LESSON 3: HARVESTING ENERGY





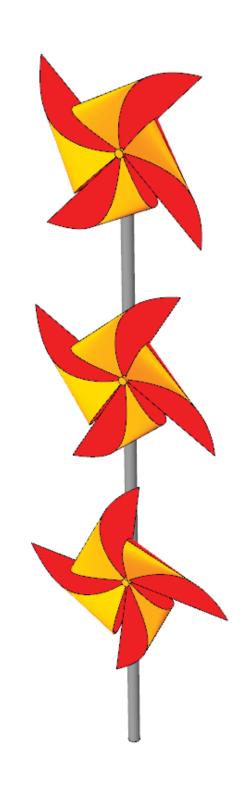
MATERIAL REQUIRED

- 1. 3 TEMPLATE PRINTED ON 8.5" X11"
- 2. NEWSPAPER FOR SUPPORT
- 3. SCISSOR
- 4. TAPE
- 5. PAPER CLIP
- 6. 1 Electrical Fan

TIME REQUIRED 30 MIN

CONCEPT

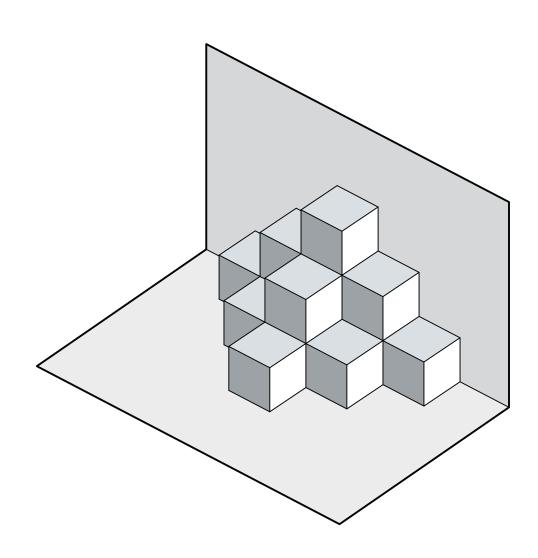
- 1. WINDMILL
- 2. BASIC ASSEMBLY



LESSON 3: HARVESTING ENERGY



LESSON 4: FOLDABLE CONSTRUCTION



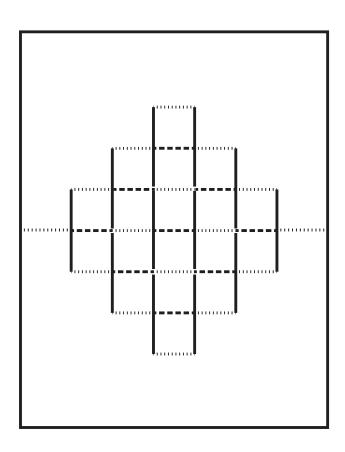
MATERIAL REQUIRED

- 1. CARD WITH TEMPLATE
- 2. SCISSOR

TIME REQUIRED 30 MIN

CONCEPT

- 1. FOLDING TECHNIQUE
- 2. ARCHITECTURAL DRAWING
- 3. 2D TO 3D
- 4. CREATE A PLAN WITH STUDENT'S NAME



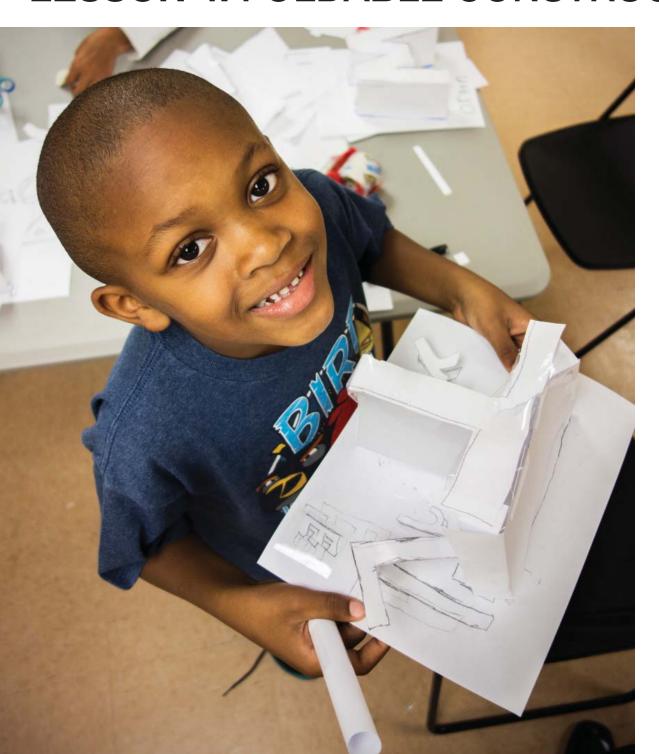
LINETYPE

CUT

..... FOLD DOWN

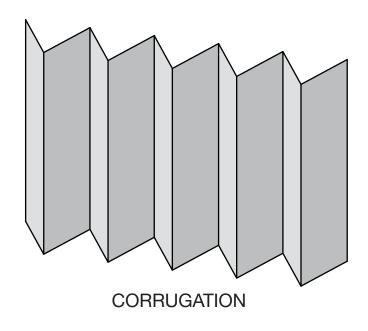
FOLD UP

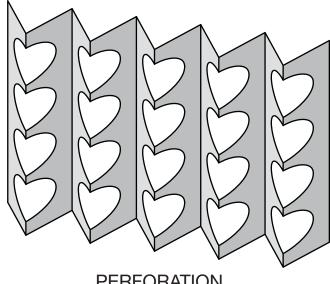
LESSON 4: FOLDABLE CONSTRUCTION





LESSON 5: PERFORATED LANTERN





PERFORATION

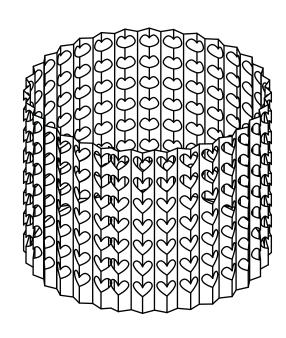
MATERIAL REQUIRED

- 1. 4 PIECE OF LETTER SIZE **PAPER**
- 2. SCISSOR
- 3. TAPE

TIME REQUIRED **30 MIN**

CONCEPT

- 1. FOLDING & CUTTING TECHNIQUE
- 2. STRUCTURE
- 3. HISTORY OF CHINESE LANTERN

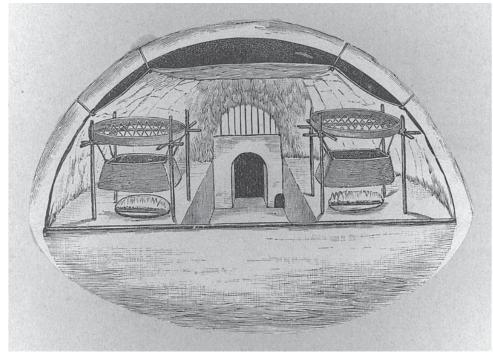


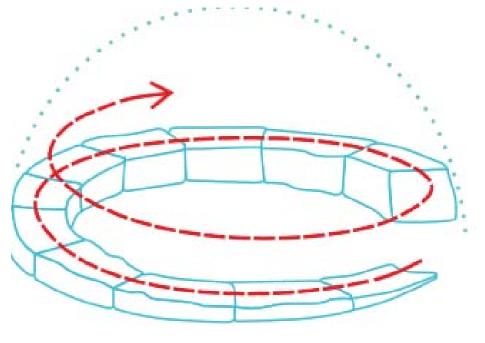
LESSON 5: PERFORATED LANTERN

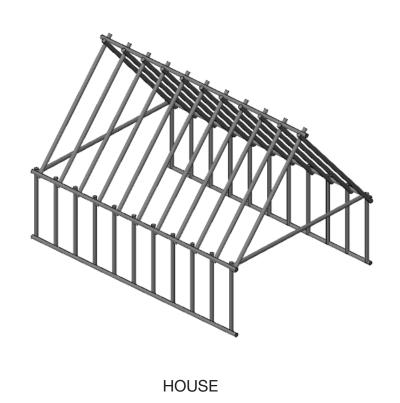


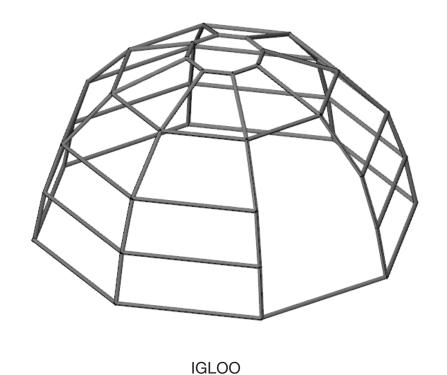












MATERIAL REQUIRED

- 1. NEWSPAPER
- 2. SCISSOR
- 3. TAPE

TIME REQUIRED 60 MIN

CONCEPT

- 1. HISTORY OF HOUSING
- 2. HABITABLE CONSTUCTION
- 3. CONSTRUCT CURVE SURFACE OUT OF STRAIGHT MODULE

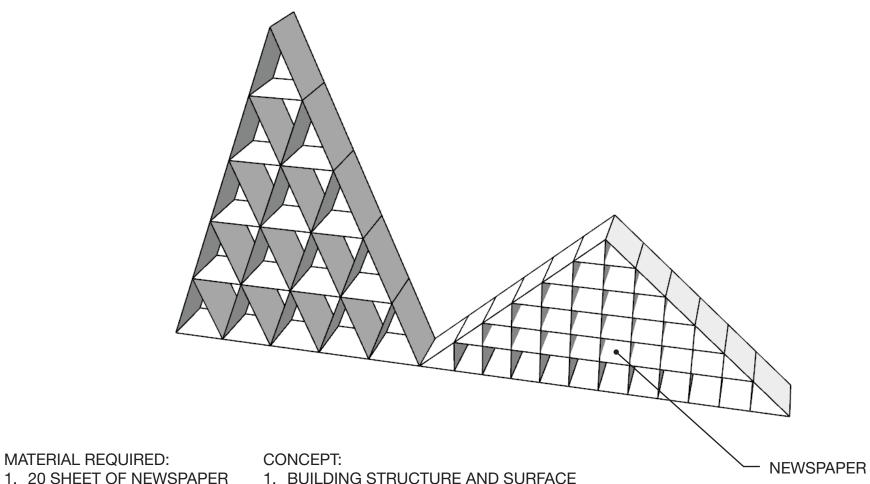


A VILLAGE OF IGLOOS





LESSON 7: URBAN PLANNING



MATERIAL REQUIRED:

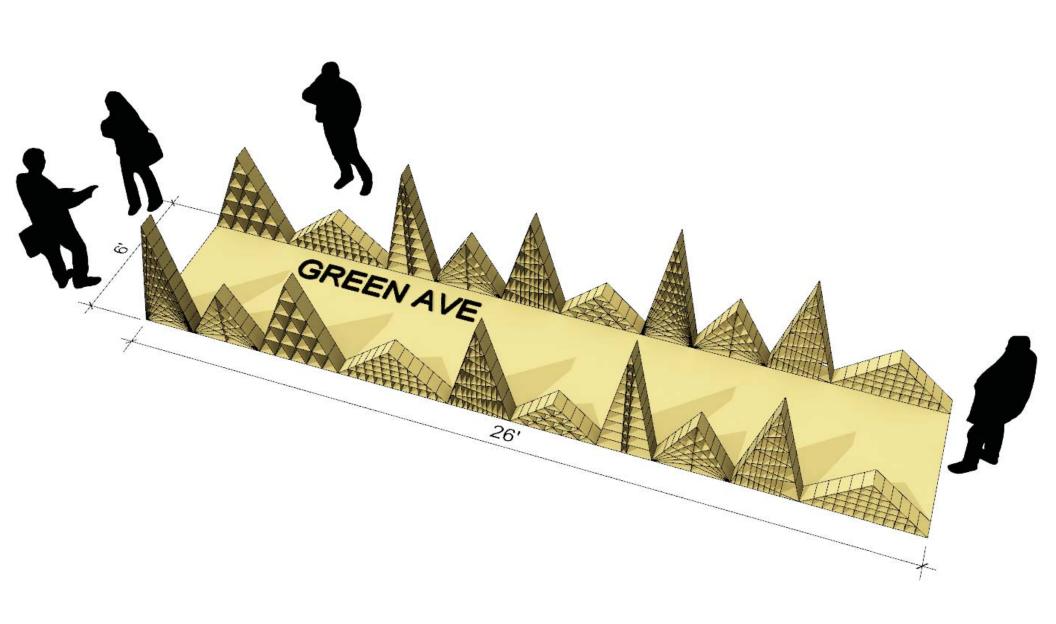
PER STUDENT

- 2. SCOTCH TAPE
- 3. SCISSORS

TIME REQUIRED 1hr 30min

- 2. SUNLIGHT
- 3. NEIGHBORHOOD PLANNING

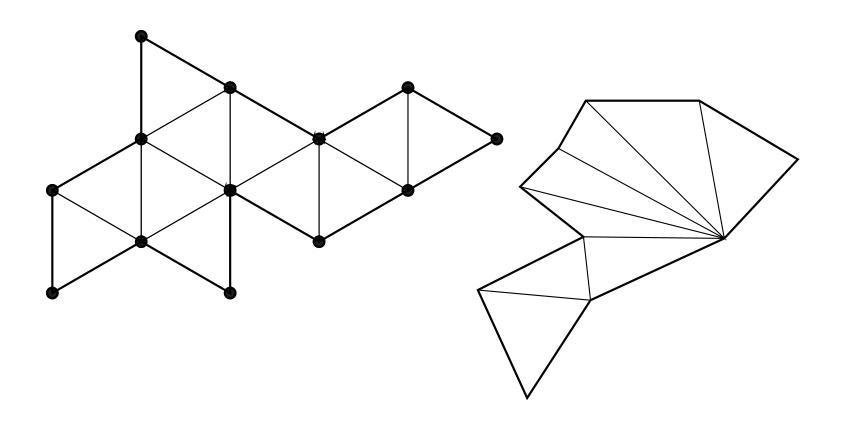
LESSON 7: URBAN PLANNING



LESSON 7: URBAN PLANNING



LESSON 8: TESSELLATION



MATERIAL REQUIRED:

- 1. TOOTHPICK
- 2. HANDMADE CLAY

TIME REQUIRED 1hr

CONCEPT:

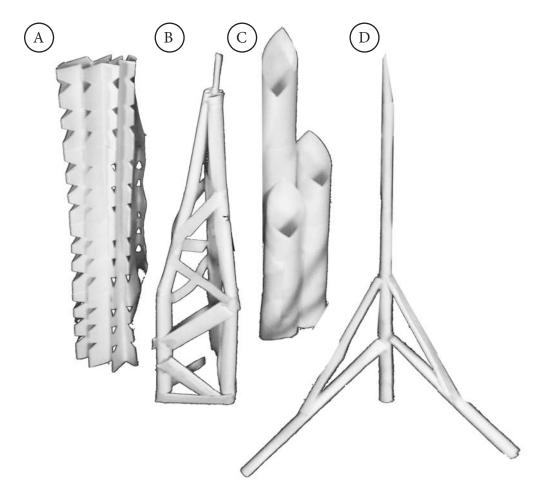
- 1. BUILDING REGID FORM USING METHOD OF TESELLATION
- 2. SUBDIVISION
- 3. WEIGHT VS FORM

LESSON 8: TESSELLATION





LESSON 9: HIGH-RISE CONSTRUCTION



- A) PERFORATED TOWER
- B) TESSELLATED TOWER
- (C) BUNDLE TOWER
- (D) STICK TOWER

MATERIAL REQUIRED:

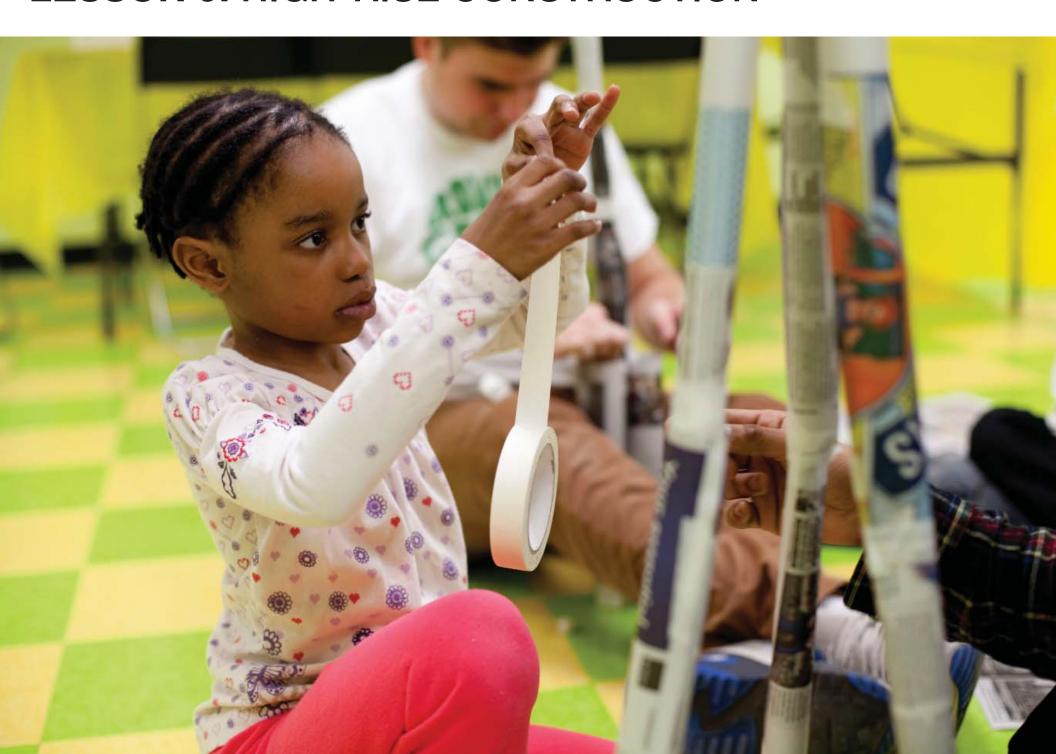
- 1. NEWSPAPER
- 2. MASKING TAPE

TIME REQUIRED 1.5hr

CONCEPT:

- 1. COMBINE ALL BUILDING KNOWLEDGE
- 2. COMPETE TO BUILD THE HIGHEST TOWER
- 3. COMPETE TO BUILD THE BEST DESIGN

LESSON 9: HIGH-RISE CONSTRUCTION

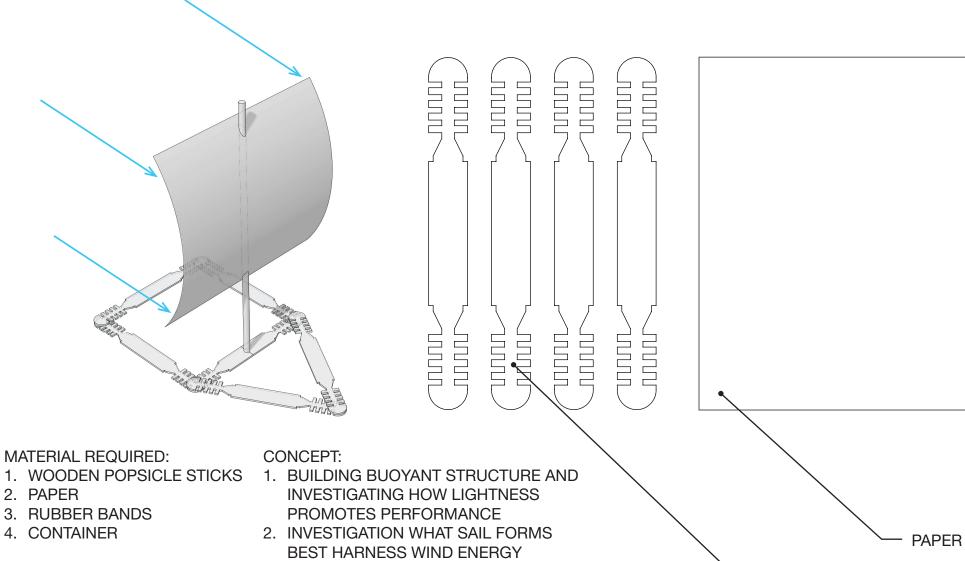


LESSON 9: HIGH-RISE CONSTRUCTION





LESSON 10: BOAT MAKING



WOODEN STICKS

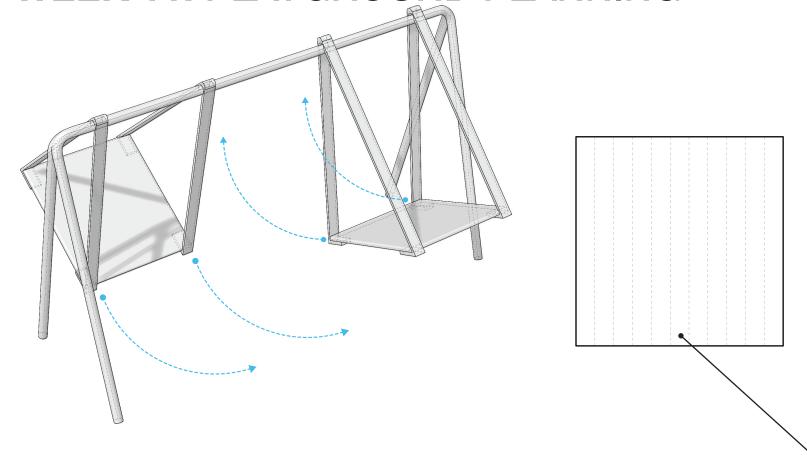
TIME REQUIRED 1hr 30min







WEEK 11: PLAYGROUND PLANNING



MATERIAL REQUIRED:

- 2. SCOTCH TAPE
- 3. SCISSORS

TIME REQUIRED 1hr 30min

CONCEPT:

1. 3 SHEET OF LETTER PAPER 1. BUILDING MOVABLE STRUCTURE

PAPER

- 2. SUNLIGHT
- 3. PLAYGROUND PLANNING

WEEK 11: PLAYGROUND PLANNING





CLASS OF SUMMER 2013

