Lily Pad
A Task-Based Instant Challenge
Team Copy

**Challenge:** Your task is to BUILD one or more lily pads that float frogs in a tub of water.

**Time:** You will have 5 minutes to build at least one floating lily pad, and 2 minutes to float the frogs in the tub.

**Set-up:** On a table are materials for building your lily pads, as well as different types of frogs represented by a nail, a comb and 3 binder clips. On the floor is a tub filled with water.

**Procedure:** Using the materials provided, build one or more lily pads that will float frogs in the tub.

**Part 1 (5 minutes):**
- For the purpose of this Challenge, a FLOATING LILY PAD means the lily pad may not touch any part of the tub, but it must fit completely inside the tub.
- For the purpose of this Challenge, FLOATING FROG means the frog must touch some part of the lily pad, fit completely inside the tub, but not touch any part of the tub.
- You may not use words during Part 1.
- Try to have one floating lily pad and one floating by the end of Part 1.
- The Appraisers will dry off wet frogs at the end of Part 1, but will leave floating frogs alone.

**Part 2 (2 minutes):**
- You may speak during Part 2.
- You may continue to build lily pads during this part of the Challenge.
- When you are ready to be scored, you may say “Finished.”

**Materials:**
- 1 Styrofoam ball
- 2 paper clips
- 2 rubber bands
- 1 sheet of paper
- 12 inches of string
- 4 straws
- 1 index card
- 1 envelope
- 1 balloon
- 2 craft sticks
- 1 pair of scissors that may not be damaged or be part of the solution

The frogs, represented by a nail, a comb and 3 binder clips, may not be damaged or modified in any way.

**Scoring:** Your team will receive
- A. 20 points if one lily pad is floating inside the tub by the end of Part 1
- B. 10 points if one frog is floating at the end of Part 1
- C. 4 points (20 points maximum) for each floating frog at the end of Part 2
- D. 10 points for keeping all floating frogs completely dry during Part 2
- E. Up to 20 points for creative use of materials
- F. Up to 20 points for how well your team works together
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Appraiser Copy

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B. 10 points if one frog is floating at the end of Part 1
C. 4 points (20 points maximum) for each floating frog at the end of Part 2
D. 10 points for keeping all floating frogs completely dry during Part 2
E. Up to 20 points for creative use of materials
F. Up to 20 points for how well your team works together
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For the Appraisers only:

Set-up:

Materials:
1. The Styrofoam ball measures 2-1/2 inches in diameter.
2. The sheet of paper measures 8-1/2 x 11 inches.
3. The index card measures 3 x 5 inches.
4. The envelope is a standard business size 10.
5. Use three 1-1/4 inch binder clips, one pocket comb, and one 2-1/2 inch nail to represent frogs.

Room:
1. Ahead of time, place the building materials on a table.
2. Fill a long, shallow, translucent plastic storage tub with 5 inches of water. On the outside, mark the water level with colored tape. Use a gallon milk jug or other container to fill the tub.
3. Protect the floor with a tarp or vinyl table cloth.
4. Use a colander to scoop up broken bits from the Styrofoam ball.
5. Have cloth towels on hand to wipe spills and dry off frogs.

Notes:
1. The walls of the tub are finite. In other words, no lily pads may extend outside or above the tub.
2. The 10 points for having completely dry floating frogs during Part 2 (scoring element D) does not mean that ALL frogs must remain dry, only the ones the team actually floats during Part 2.
3. Between Part 1 and Part 2, Appraisers should dry off with a towel any moisture from the frogs. However, leave floating frogs alone so you do not disturb the team’s solution.
4. If the team does not have at least one floating lily pad inside the tub by the end of Part 1, it may continue to build during Part 2.
5. If the team speaks during Part 1, remind students they may not speak. If they continue to speak, each Appraiser should take this into consideration when awarding teamwork points (scoring element F).
6. To make easier:
   • Change Part 1 to 6 minutes.
   • Allow the team to speak during any part of the Challenge.
7. To make more difficult:
   • Change Part 1 to 4 minutes.
   • Don’t allow the team to speak during any part of the Challenge.
# Lily Pad

A Task-Based Instant Challenge

## Score Sheet

<table>
<thead>
<tr>
<th>Description</th>
<th>Points</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. One lily pad is floating inside the tub by the end of Part 1.</td>
<td>0 or 20</td>
<td></td>
</tr>
<tr>
<td>B. One frog is floating at the end of Part 1.</td>
<td>0 or 10</td>
<td></td>
</tr>
<tr>
<td>C. 4 points x ___ floating frogs by the end of Part 2.</td>
<td>0 or 4, 8, 12, 16 or 20</td>
<td></td>
</tr>
<tr>
<td>D. All FLOATING frogs remain completely dry during Part 2.</td>
<td>0 or 10</td>
<td></td>
</tr>
<tr>
<td>E. Creative use of materials</td>
<td>1-20</td>
<td></td>
</tr>
<tr>
<td>F. How well the team works together (see below)</td>
<td>1-20</td>
<td></td>
</tr>
</tbody>
</table>

**F. Teamwork: Circle 0-4 in each of the five rows.**

<table>
<thead>
<tr>
<th></th>
<th>Little or no indication of teamwork</th>
<th>Low level of teamwork</th>
<th>Adequate level of teamwork</th>
<th>Good level of teamwork</th>
<th>Outstanding—exceptional level of teamwork</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shared goal and purpose</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Working together and cooperating</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Support and communication</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Focus on results</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Respect for team members and ideas</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

**Shared goal and purpose:** The extent to which the team gives evidence that they have a common goal that everyone is committed to meeting.

**Working together and cooperating:** The extent to which the team members display cooperation and collaboration, with all team members having a role and making a contribution.

**Support and communication:** The extent to which, when working on the Challenge, the team members listen to each, exchange ideas, and support or build on each others’ ideas.

**Focus on results:** The extent to which the team’s activities are relevant to their goal and help them move forward, rather than spending time and effort on unimportant or trivial tasks.

**Respect for team members and ideas:** The extent to which the team members’ social behaviors are positive and courteous, without bickering, arguing or destructive criticism.

Comments: (Use reverse side if necessary)