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| **Subject:** | Science |
| **Title:** | Build a Hockey Rink |
| **Grade Level:** | 1 |
| **Purpose:** | * Students will construct a hockey rink, with guidance.
* Students will develop problem solving skills by using materials provided to create their rinks.
* Students will demonstrate perseverance by working on this task for a sustained period of time.
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| **Curricular****Connections:** | * Select appropriate materials, such as papers, plastics, woods; and design and build objects in order construct model objects; e.g., furniture, equipment, boats, vehicles
* Identify component parts of personally constructed objects, and describe the purpose of each part.
* Compare two objects that have been constructed for the same purpose, identify parts in one object that correspond to parts in another, and identify similarities and differences between these parts.
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| **Materials:** | * + Pictures of a variety of indoor and outdoor hockey rinks
	+ Assorted materials that have been collected by students over a period of time such as:
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| * cardboard
* plastic containers
* styrofoam
* fabric
* tape
 | * glue
* wax paper
* string
* tin foil
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| * ‘How did you build your hockey rink?’ interview sheet
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| **Activity:** | 1. Ask students, “Who has been to a hockey game?”
2. Have students share what the hockey game was like and what they saw.
3. Show students pictures of indoor and outdoor hockey rinks.
4. Ask students what they saw in the pictures. Record responses on board or on chart paper. (It is important that this list stays visible during the project so students can refer back to it.)
5. Read list back to class to ensure they know/recall what is listed. (Teacher may want to draw or add pictures beside each item listed to help students remember what the words say.)
6. Inform students that they are now going to build their own hockey rink.
7. Give students time to go through the building supplies to select the materials they want to use.
8. Students construct their hockey rinks.
9. Students show their hockey rinks to their classmates and describe how they made them.
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| **Extension:** | 1. Discuss what other things may be seen at a hockey rink and make some of those other objects. (e.g. Zamboni)
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| **Assessment:** | 1. Teacher will circulate during building process and make observations on students’ progress, asking guiding questions as needed to help guide students through the project.
2. Assess rinks. Were students able to create a hockey rink that looks like a rink?
3. Interview students by asking and recording responses for the questions on the “How Did You Build Your Hockey Rink?” sheet.
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**How did you build your hockey rink?**

**Interview sheet**

1. How did you build your hockey rink? Describe the steps you followed in order.
2. Which materials worked the best?
3. Which materials were difficult to work with?
4. What worked well? What didn’t work?
5. What would you change next time?
6. How is your hockey rink the same or different from the ones that your classmates built?