Move Around It!
You want to roll a ball across the floor to a partner. Other things are in the way. How can you roll the ball around them?

Find a Problem

1 Circle the problem.
Plan and Draw

2 Where does the ball need to go?

Draw a path.
Choose Materials

3 You will build something to make the ball follow the path.

Circle the materials you will use.
4 Draw one material you will not use.
Tell why.
Make and Test

5. Draw how you will use your materials.

6. Build something that will make the ball follow the path.
7 Push your ball to follow the path.
What happens?
Draw.
Record and Share

8 Tell about your path.
Did the path help the ball change direction?

9 Give your ball a soft push.
Did the ball reach your partner?

Circle

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
10 Give your ball a hard push.

Did the ball reach your partner?

Circle  Yes  No

11 How hard do you need to push the ball to make it reach your partner?

Circle  Soft push  Hard push
12 Look at someone else’s path. Compare. Whose ball reached a partner?
Circle

<table>
<thead>
<tr>
<th>My ball</th>
<th>Another child’s ball</th>
</tr>
</thead>
<tbody>
<tr>
<td>Both balls</td>
<td>Neither ball</td>
</tr>
</tbody>
</table>

13 Draw how someone else’s path is different.
14 Plan your path again.

Draw how it is different.