Bennett Mechanical Comprehension Test® (BMCT-II)

BMCT-II assesses student ability for:
- Mechanical reasoning abilities
- Aptitude for learning mechanical processes and tasks
- Spatial Awareness and Visualization
- Application of basic mechanical and physical concepts
- Deduction of “how machinery works.”

Test Administration
In the testing center, each student completes the BMCT-II online. Students are presented with a test of 55 items selected randomly from a large bank of items. Students will have 25 minutes to complete the test.

Test Content
Questions on the BMCT-II cover many important content areas including pulleys and levers, gravity, acoustics, optics, electricity, gears, heat, shape and volume, hydraulics, and force.

<table>
<thead>
<tr>
<th>Content Area</th>
<th>Number of Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulleys and Levers</td>
<td>7</td>
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<tr>
<td>Hydraulics</td>
<td>6</td>
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<tr>
<td>Resolution of Forces, Centrifugal Force, and Torque</td>
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<tr>
<td>Structures, Planes, and Slopes</td>
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<tr>
<td>Gears and Belt Drives</td>
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<tr>
<td>Miscellaneous</td>
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<tr>
<td>Gravity and Velocity</td>
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<tr>
<td>Acoustics and Optics</td>
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<td>Center of Gravity</td>
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<tr>
<td>Electricity</td>
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</tr>
<tr>
<td>Heat</td>
<td>3</td>
</tr>
<tr>
<td>Shape and Volume</td>
<td>3</td>
</tr>
</tbody>
</table>

Test Results
Test results may be used for enrollment decisions, to improve curriculum, or program placement.

Doing Your Best
To do your best on the test:
- Make sure to be refreshed and relaxed on the day of the test
- Turn off your cell phone and minimize distractions
- Try to answer every question; there is no penalty for guessing
- Stay focused and believe you will do well
- Try the practice items which are similar to those you will see on the test.
1. Which worker carries more weight? (If equal, mark C.)
   - A
   - B
   - C

2. Which letter shows the seat where a passenger will get the smoothest ride?
   - A
   - B
   - C

3. Which hunter’s bullet will strike the ground first? (If equal, mark C.)
   - A
   - B
   - C
4. Which hand position would feel hottest? (If equal, mark C.)
   - A
   - B
   - C

5. Which position shows the fairest positioning for a race all the way around the track?
   - A
   - B
   - C

6. Which part of the chain has more strain on it? (If equal, mark C.)
   - A
   - B
   - C

Check your answers: