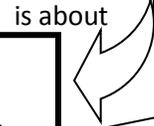


**Lesson Topic  
Micrometers**

**Reading a Micrometer**



1. Find the tenths place (the biggest number showing on the sleeve)

2. Count the complete spaces between the biggest number and the thimble

3. Multiply the number of spaces by 25. This number is your temporary hundredths and thousandths place

4. Look at the scale on the thimble. Find the line that closest matches the vertical line on the sleeve. Count the spaces between 0 and this line

6. The number in step 1 is your tenths place. The number in step 5 is your hundredths and thousandths place

5. Add this number to the number you found in step 3

**Discussion**

<b>Relationship between lesson and unit</b>	<b>Relationship between lesson and daily life</b>
<p>A micrometer is an important and common measurement tool used in the manufacturing industry.</p> <p>There is a special technique required in order to be able to read a micrometer correctly.</p>	<p>The ability to read a micrometer is a skill that many manufacturing employers require.</p> <p>You will need to read a micrometer in order to check your work in welding and CNC.</p>

<b>Self-Test Questions</b>	<b>Tasks/Strategies</b>
<ul style="list-style-type: none"> <li>• How do you find the tenths place? (step 1)</li> <li>• How many spaces are there between numbers on the sleeve? (step 2)</li> <li>• How much does each space in the sleeve stand for? (step 3)</li> <li>• How do you know which line to look at on the thimble? (step 4)</li> <li>• What do you do with the number from the thimble? (step 5)</li> <li>• How do you write your final answer? (step 6)</li> </ul>	<ul style="list-style-type: none"> <li>• Practice measuring precise lengths with a micrometer</li> <li>• Guided practice online <a href="http://www.linnbenton.edu/auto/day/mike/read.html">http://www.linnbenton.edu/auto/day/mike/read.html</a></li> <li>• Align micrometer to certain measurement online <a href="http://www.stefanelli.eng.br/en/aka-micrometer-caliper-outside-inch-thousandths.html">http://www.stefanelli.eng.br/en/aka-micrometer-caliper-outside-inch-thousandths.html</a></li> </ul>