

# Math-in-CTE Lesson Plan Template

Lesson Title: HSS vs Carbide		Lesson # M15
Author(s):	Phone Number(s):	E-mail Address(es):
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Occupational Area:		
CTE Concept(s): Productivity		
Math Concepts: Systems of equations		
Lesson Objective:	Students will learn how cutting tool material impacts productivity.	
Supplies Needed:		

THE "7 ELEMENTS"	TEACHER NOTES (and answer key)
1. Introduce the CTE lesson.	<p>In the manufacturing world time is money.</p> <p>The more efficient you can make your day the more money goes into your pocket</p>

<p><b>2. Assess students' math awareness as it relates to the CTE lesson.</b></p> <p>Time: hours/minutes</p> <p>Work days per year.</p>	
<p><b>3. Work through the math example <i>embedded</i> in the CTE lesson.</b></p> <p>Worksheet example:</p>	<p>Go through the student's day at school. Have them calculate the amount time on and off task.</p>

**4. Work through *related, contextual* math-in-CTE examples.**

If we spend 30 minutes on this lesson, what is the total “student hours” spent on this lesson?

**5. Work through *traditional math* examples.**

Worksheet:

<p><b>6. Students demonstrate their understanding.</b></p> <p>Examples</p>	
<p><b>7. Formal assessment.</b></p> <p><b>Reality check.</b></p> <p><b>How much time is this class is productive.</b></p>	

NOTES: