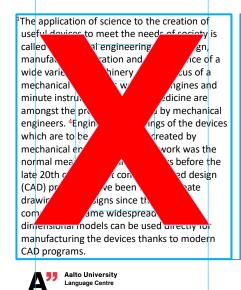


The application of science to the creation of useful devices to meet the needs of society is called mechanical engineering.<sup>2</sup>The design, manufacture, operation and maintenance of a wide variety of machinery are the focus of a mechanical engineer's work. <sup>3</sup>Jet engines and minute instruments for use in medicine are amongst the products designed by mechanical engineers. <sup>4</sup>Engineering drawings of the devices which are to be produced are created by mechanical engineers. <sup>5</sup>Manual work was the normal means of creating drawings before the late 20th century, but computer-aided design (CAD) programs have been used to create drawings and designs since the use of computers became widespread. <sup>6</sup>Threedimensional models can be used directly for manufacturing the devices thanks to modern CAD programs.

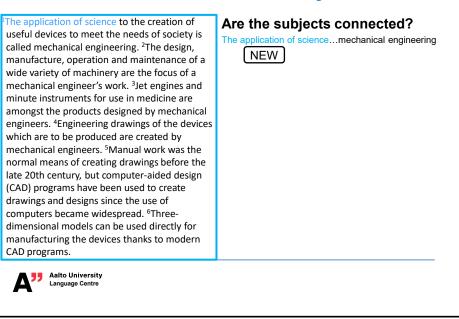
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#### Which is easier to read? Why?



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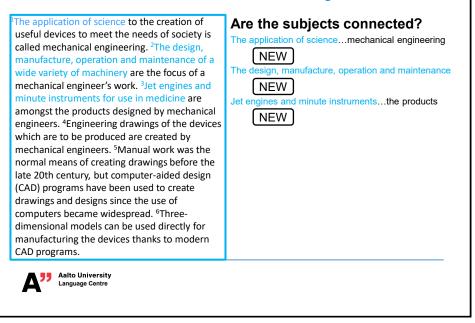
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#### Are the subjects connected?

The application of science...mechanical engineering

The design, manufacture, operation and maintenance

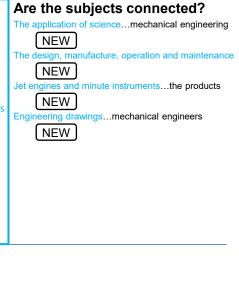


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Are the subjects connected? The application of science...mechanical engineering NEW The design, manufacture, operation and maintenance NEW Jet engines and minute instruments...the products NEW Engineering drawings...mechanical engineers NEW Manual work...normal means NEW Three-dimensional models...modern CAD programs NEW

Are the subjects connected?

NEW

NEW

NEW

NEW

NEW

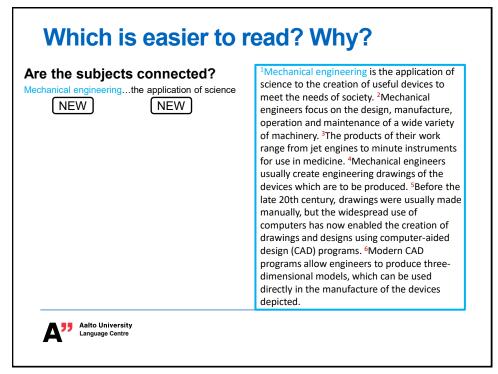
Manual work...normal means

The application of science...mechanical engineering

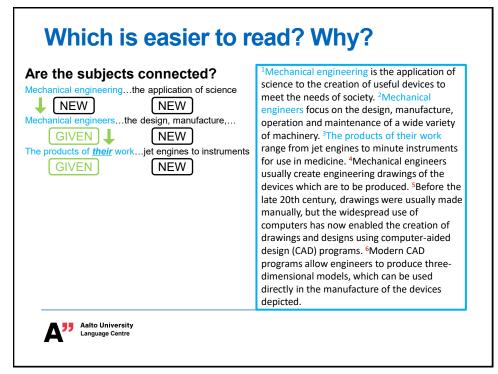
The design, manufacture, operation and maintenance

Jet engines and minute instruments...the products

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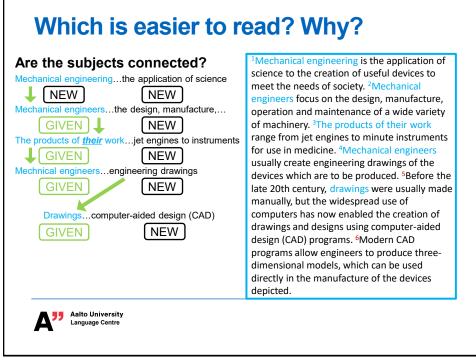


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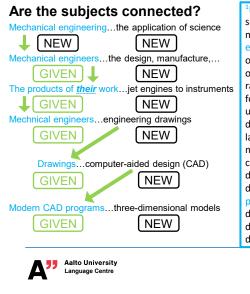


## Which is easier to read? Why?

Are the subjects connected? Mechanical engineeringthe application of science ↓ NEW NEW Mechanical engineersthe design, manufacture, GIVEN ↓ NEW The products of <i>their</i> workjet engines to instruments ↓ GIVEN NEW Mechnical engineersengineering drawings GIVEN NEW	<sup>1</sup> Mechanical engineering is the application of science to the creation of useful devices to meet the needs of society. <sup>2</sup> Mechanical engineers focus on the design, manufacture, operation and maintenance of a wide variety of machinery. <sup>3</sup> The products of their work range from jet engines to minute instruments for use in medicine. <sup>4</sup> Mechanical engineers usually create engineering drawings of the devices which are to be produced. <sup>5</sup> Before the late 20th century, drawings were usually mode manually, but the widespread use of computers has now enabled the creation of drawings and designs using computer-aided design (CAD) programs. <sup>6</sup> Modern CAD programs allow engineers to produce three-dimensional models, which can be used directly in the manufacture of the devices depicted.
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