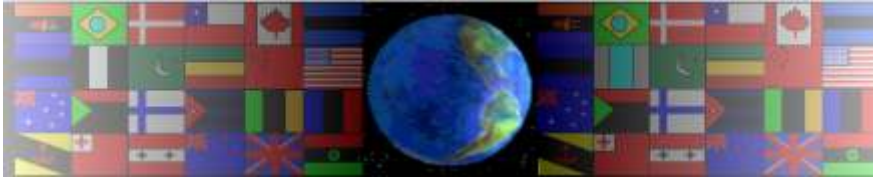


WHY USE STANDARD COMPONENTS WHEN DESIGNING AND MANUFACTURING?

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

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WHY USE STANDARD COMPONENTS WHEN DESIGNING AND MANUFACTURING?

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1. With reference to either TV manufacturers or Mobile Phone manufacturers, why are standard components important?

2. Complex products such as security alarm circuits, are manufactured with standard electronic components, supplied by other manufacturers. If standard components were not available, what affect would this have on manufacturers of 'complex' electronic products? The key phrases may help you answer this question.

- | | |
|--------------------------------------|-------------------------|
| ONLY SIMPLE DEVICES AVAILABLE | LESS FEATURES/FUNCTIONS |
| SLOW PRODUCT DEVELOPMENT | MORE EXPENSIVE PRODUCTS |
| LESS AUTOMATION ON A PRODUCTION LINE | SLOWER PRODUCTION LINES |

3. Transistors, first introduced on a wide scale in the 1960s, can be regarded as a standard electronic component. They are a vital component in many of the devices we rely on and use every day. List ten electronic devices / gadgets that rely on transistors in their circuits.

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4. List standard components used by car manufacturers.
