

Technologies - Craft, design, engineering and graphics contexts for developing technological skills and knowledge

Fourth Level TCH 4-12a

Having gained knowledge of how formulae may be used in the context of energy transfer and mechanical systems, I can apply them to solve problems, for example in engineering.

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Fourth Level TCH 4-12b

I can use my knowledge and skills of science and mathematics and can apply the basic principles of control technology in solving practical problems.

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Fourth Level TCH 4-13a

I can confidently apply preparation techniques and processes to manufacture items using specialist skills, materials, tools and software in my place of learning, at home or in the world of work.

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Fourth Level TCH 4-14a

Showing creativity and innovation, I can design, plan and produce increasingly complex items which satisfy the needs of the user, at home or in the world of work.

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Fourth Level TCH 4-14b

I can apply skills of critical thinking when evaluating the quality and effectiveness of my own or others' products or systems.

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Fourth Level TCH 4-14c

I can explore the properties and functionality of materials, tools, software or control technology to establish their suitability for a task at home or in the world of work.

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Fourth Level TCH 4-14d

By examining and discussing the features of everyday products, I am gaining an awareness of the factors influencing design and can evaluate how these products meet the needs of the user.

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Fourth Level TCH 4-15a

Having sketched or drawn a series of everyday objects pictorially and orthographically, I have become proficient in third angle projection and can apply this knowledge when producing 2D or 3D images when using software.

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Fourth Level TCH 4-15b

When developing or enhancing representations of ideas or items, manually or electronically, I can apply my knowledge of colour theory, justifying the choices I make.

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Fourth Level TCH 4-15c

I can confidently use appropriate software to represent my ideas and items in the world around me, showing creativity, imagination or innovation.

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Fourth Level TCH 4-15d

I can understand and use computer aided design/computer aided manufacture, exploring its applications.