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# KS3 Assessment in Design and Technology **Geor 8 - Helicopter**

## ✓ They carry out basic investigation into the work of others. ✓ Pupils work safely, demonstrating a low level of skill with a few tools and materials (including CAM where appropriate). ✓ They make a prototype of low quality and make a single measurement for quality control purposes. Pupils undertake a limited evaluation of their final prototype, identifying at least one feature of the prototype that needs to be modified. ✓ Their investigation of the work of others has a few influences on their design thinking. CAPABLE ✓ Pupils work safely, demonstrating an adequate level of skill, and mostly using the correct tools, materials and equipment (including CAM where appropriate). ✓ They carry out a few measurements and test the prototype for quality control purposes. They make a prototype of sufficient quality, which meets at least one of the needs of the user/client. ✓ Pupils test and evaluate a few features of the design. ✓ They consider at least one point of feedback from a third party and identify a few modifications to the design which were a result of testing, analysis and evaluation. They investigate the work of others and state how this had some influence on their design thinking. ✓ Pupils work safely, demonstrating a good level of skill and using the correct tools, materials and equipment (including CAM where appropriate). ✓ They carry out some measurement and testing for quality control purposes. ✓ They make a prototype of sufficient quality, which meets some of the needs of the user/client. ✓ Pupils test and evaluate all the features of the design. ✓ They consider a few points of feedback from third parties. They identify some modifications to the design which were a result of testing, analysis and evaluation.

## KS3 Assessment in Design and Technology

## Year 8 - Desk Clock

## ✓ Pupils can identify basic mechanisms. Pupils work safely, demonstrating a low level of skill with a few tools and materials. ✓ They demonstrate little consistency when marking out and shaping the corners of the clock. ✓ They make a prototype of low quality and make a single measurement for quality control purposes. ✓ Pupils undertake a limited evaluation of their final prototype, identifying at least one feature of the prototype that needs to be modified. ✓ Pupils can identify and begin to adapt basic mechanisms. ✓ Their investigation of the work of others has a few influences on their design thinking. ✓ Pupils work safely, demonstrating an adequate level of skill, and mostly using the correct tools, materials and equipment. ✓ They demonstrate some consistency when marking out and shaping the corners of the clock. ✓ They carry out a few measurements and test the prototype for quality control purposes. They make a clock of sufficient quality, which meets at least one of the needs of the user/client. Pupils test and evaluate a few features of the design. ✓ They consider at least one point of feedback from a third party and identify a few modifications to the design which were a result of testing, analysis and evaluation. Pupils can identify and adapt both basic and complex mechanisms. ✓ They investigate the work of others and state how this had some influence on their design thinking. Pupils work safely, demonstrating a good level of skill and using the correct tools, materials and equipment. ✓ They demonstrate consistency when marking out and shaping the corners of the clock. ✓ They carry out some measurement and testing for quality control purposes. ✓ They make a prototype of sufficient quality, which meets some of the needs of the user/client. ✓ Pupils test and evaluate all the features of the design. ✓ They consider a few points of feedback from third parties. They identify some modifications to the design which were a result of testing, analysis and evaluation.

# KS3 Assessment in Design and Technology **Geor 8 - Bridge Design**

- Pupils can name and identify basic forces.
- They carry out basic investigation into the work of others.
- They produce a simple design brief and design specification, explaining a few criteria in the design specification.
- They generate a few design ideas with obvious design fixation, labelling these with a few descriptive comments about functionality and aesthetics.
- ✓ They use a design strategy and communicate their ideas using one or two techniques. They can use one or two 2D/3D modelling techniques (including CAD) to test if their design idea meets one of the requirements.
- ✓ They make a prototype of low quality and make a single measurement for quality control purposes.
- Pupils undertake a limited evaluation of their final prototype, identifying at least one feature of the prototype that needs to be modified.
- Pupils can work in teams with some effectiveness.

### Pupils can name and identify basic forces and explain how they act on structures.

- Their investigation of the work of others has a few influences on their design thinking.
- Pupils can produce an adequate design brief that shows some relevance to the context and includes at least one user/client need or want.
- ✓ They produce a design specification with several criteria, justifying a few criteria in terms of the needs and wants of the user/client. Their specification has some influence on subsequent design stages.
- They generate a few imaginative design ideas, although there may be some design fixation. They label their ideas with a few comments about functionality, aesthetics and innovation.
- They indicate at least one way that their investigative work has influenced their design thinking.
- ✓ They use a few techniques to carry out experimentation and use some techniques to communicate ideas.
- ✓ Pupils use 2D/3D modelling techniques (including CAM) to develop their ideas and use some methods to test that their ideas meet a few of the requirements.
- They carry out a few measurements and test the prototype for quality control purposes.
- They make a clock of sufficient quality, which meets at least one of the needs of the user/client.
- ✓ Pupils test and evaluate a few features of the design.
- They consider at least one point of feedback from a third party and identify a few modifications to the design which were a result of testing, analysis and evaluation.
- ✓ Pupils can work effectively in teams and independently overcome some issues that arise within the team.

- Pupils can name and identify basic and some complex forces. They can identify how they act on structures and explain how they can be controlled.
- They investigate the work of others and state how this had some influence on their design thinking.
- They carry out some measurement and testing for quality control purposes.
- Pupils can produce an adequate design brief that shows some relevance to the context provided and includes some user/client needs and wants.
- ✓ They produce a design specification with several criteria, justifying several criteria in terms of the needs and wants of the user/client.
- They generate some imaginative design ideas, although there may be a degree of design fixation. They label almost all their ideas with some comments about functionality, aesthetics and innovation. They show how their investigative work influenced their design thinking.
- ✓ They explore the use of a few different design strategies. Pupils use some 2D/3D modelling techniques (including) CAD) to develop their ideas and use a variety of methods to test that their ideas meet some of the requirements.
- They make a prototype of sufficient quality, which meets some of the needs of the user/client.
- ✓ Pupils test and evaluate all the features of the design.
- They consider a few points of feedback from third parties. They identify some modifications to the design which were a result of testing, analysis and evaluation.
- Pupils can work very effectively in teams and independently overcome all issues that arise within the team.