

An tSraith Shóisearach do Mhúinteoirí Junior CLE for teachers



Junior Cycle Graphics specification

Elective CPD 2020/2021

Onshape Workshop: Cloud-based CAD



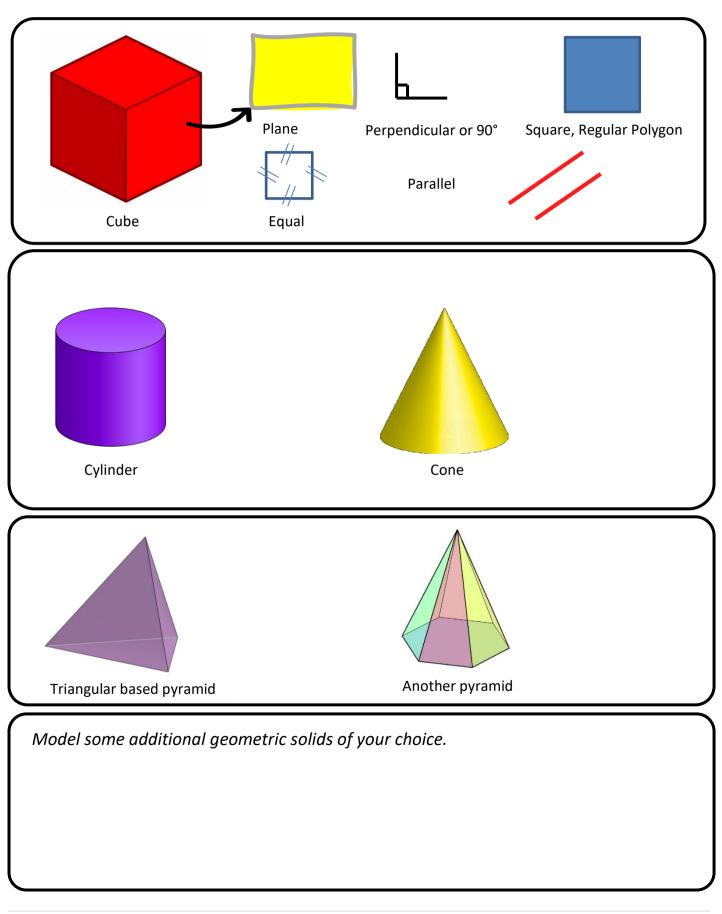


An Roinn Oideachais Department of Education

www.jct.ie

Modelling Challenges:

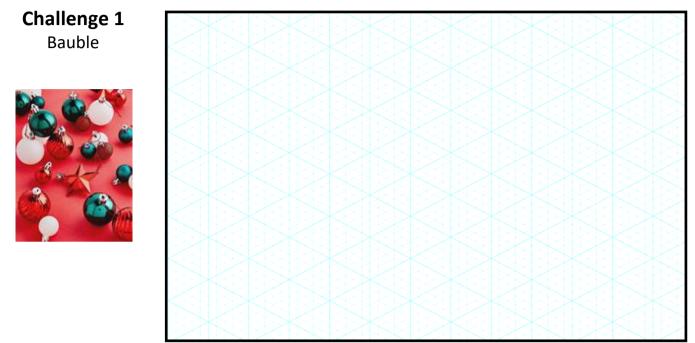
Using sketches and annotations, outline what geometric principles will aid the modelling process for the following geometric solids.



Design and Modelling Challenge 1

Design a bauble for a Christmas tree which incorporates some geometric solids. Your design should incorporate at least one plane-based geometric solid and one geometric solid with a curved surface. Finally, share your design with another Onshape user.

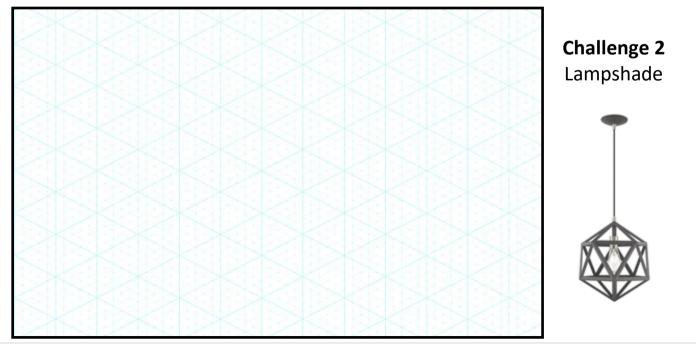
In the space below, outline what geometric principles will aid the modelling process for your chosen design.



Design and Modelling Challenge 2

Design a model of a lampshade. Try to experiment with some additional Onshape features you may not have used before and incorporate them into your design model.

In the space below, outline what geometric principles will aid the modelling process for your chosen design.



Design and Modelling Challenge 3

Model a microphone. Estimate suitable proportion and size from the ergonomics of your hand for your design.

In the space below, outline what geometric principles will aid the modelling process for your chosen design.



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www.jct.ie www.curriculumonline.ie www.ncca.ie



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