RWBA Summer Work:

FACULTY: Design & Technology HOD: Mrs Ferguson

DEPARTMENT: Engineering HOD EMAIL: queries to svaughan@rwba.org.uk

Course: BTec Nationals Level 3 Engineering

Objective: Review of GCSE skills which form part of Engineering Maths Unit 1/Design a gadget

phone holder

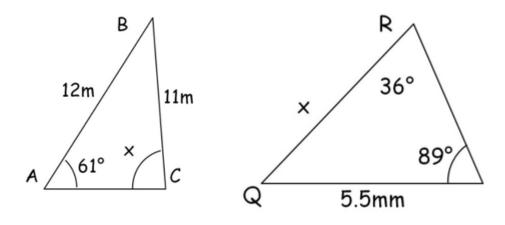
Activity: Calculations/dimensional design

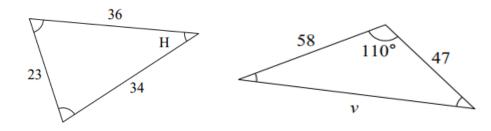
Time to be allotted to this task: 2 hours maximum

NOTES: Work to be handwritten, Name on the top. Answers correct to 2 d.p.

TASK:

Use the sine and cosine rules to find the missing angle or side of the triangles





DOCUMENTS/USEFUL LINKS

Any GCSE revision book or website.

END RESULT:

Four complete calculations – techniques ready to apply to Engineering scenarios

HAND IN DATE: First lesson in Autumn Term

Phone Stand

TASK:

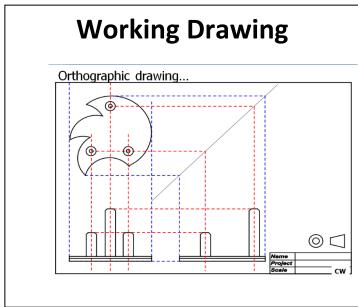
You are a Design Engineer at RWBA Engineering Company. Your line manager (Mrs Day) has asked you to design a new gadget to help hold phone whilst you work.

You job over the summer break is to:

- 1. Design the shape of the new gadget you may also want to model this to check it works.
- 2. Complete an orthographic drawing for your gadget to include dimensions so you are ready to begin practical on your first lesson back in September.
- **3.** I have also created a booklet for you to work through to help develop your problem-solving skills, recap Level 2 materials, safety and manufacturing ready to start the course in September

DOCUMENTS/USEFUL LINKS TO HELP YOU:





END RESULT:

You will have produced an orthographic drawing with dimensions for a phone holder, that you will manufacture in the workshop in September.

HAND IN DATE: First lesson in Autumn Term

