

Answer **all** parts of the question on the A3 pre-printed answer sheets provided.

- 1 Mobile phones can be used to watch videos.



Design a desktop stand that would allow a mobile phone to be supported at an angle to watch videos. The stand should fold flat when not in use.

- (a) List **four** additional points about the function of such a stand that you consider to be important. [4]
- (b) Use sketches and notes to show **two** methods that could be used to support an object at an angle. [4]
- (c) Develop and sketch **three** separate ideas for the stand. [12]
- (d) Evaluate your three ideas. Choose **one** idea to develop further and justify your choice. [8]
- (e) Draw, using a method of your own choice, a full solution to the design problem. Include construction details and important dimensions. [12]
- (f) Suggest **two** suitable specific materials for the solution you have drawn in part (e) and give reasons for your choice. [4]
- (g) Outline a method that could be used to manufacture **one** part of your solution drawn in part (e). Include the names of the tools used. [6]

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