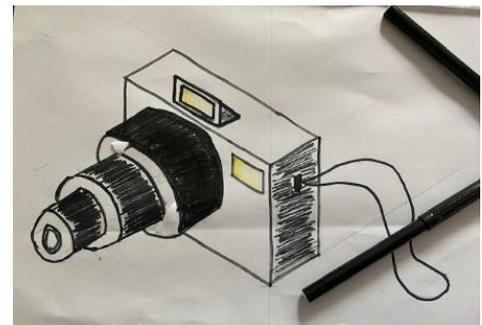


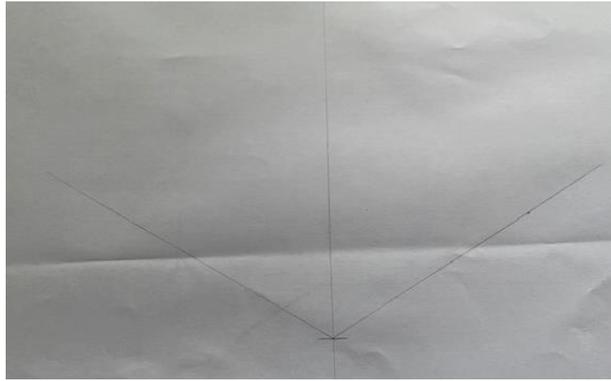
D&T AND ART CHALLENGE NUMBER 6

Isometric Drawing

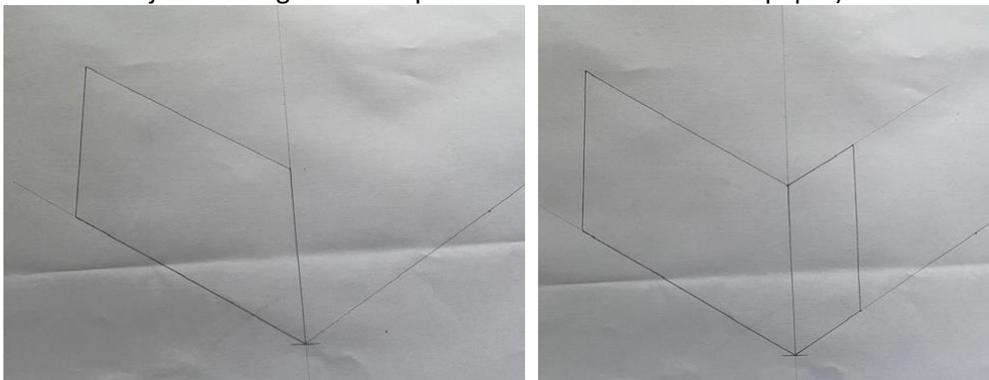
- Some of this will link to your maths work you have or will cover in future.
- First follow this link to read and learn a little more.
<https://www.bbc.co.uk/bitesize/guides/zj76fg8/revision/5>
- This link gives a little more information. Do not worry that it mentions GCSE on it! I think you can and should all attempt to complete this.
<https://www.bbc.co.uk/bitesize/guides/z6jkw6f/revision/4>
- You will notice the article says the key rules are
 - horizontal edges are drawn at 30 degrees
 - vertical edges are drawn as vertical lines
 - parallel edges appear as parallel lines
- Try follow my steps below to create the camera.
- If you can do this I would like you to then try create other designs.
- I would advise you to draw your designs really lightly so you can easily erase mistakes. You can then go over the edges later to make them stand out.



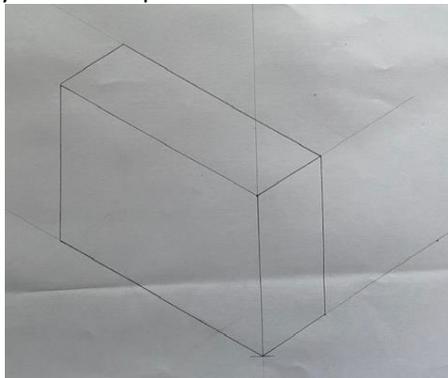
1. Draw a vertical line. Then choose a point on the bottom of this line and draw two 30 degree lines. You will notice it looks like an arrow pointing down.



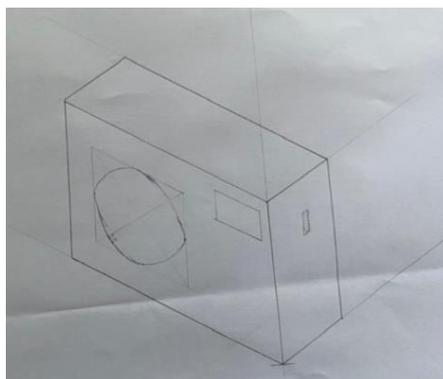
2. Try to draw the shapes as shown below. (In the drawing on the left it looks like the lines are not parallel – this is just the angle I took a picture at and the fold in the paper)



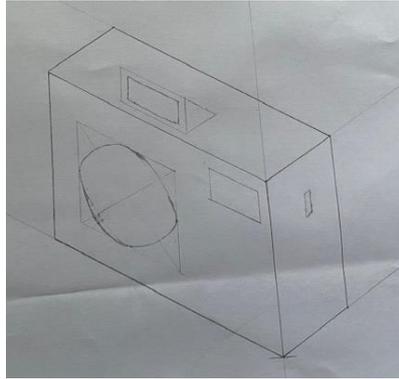
3. Now join the lines to make your 3D shape as shown below.



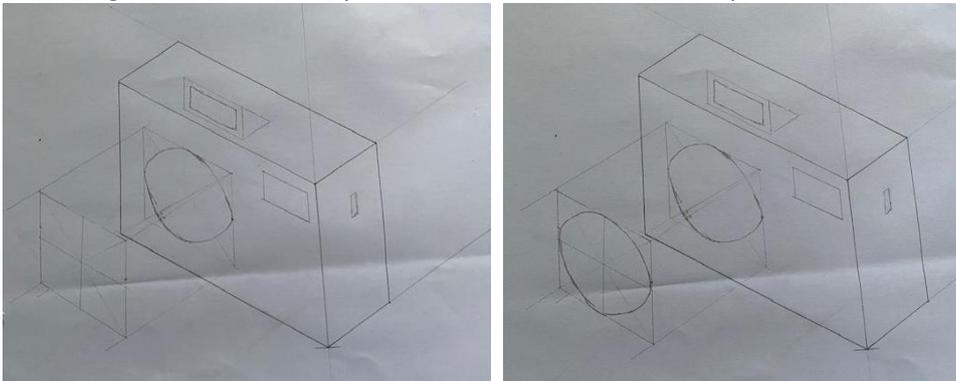
4. You can add designs on the front or side of the shape. However you must follow the 3 rules mentioned at the start.



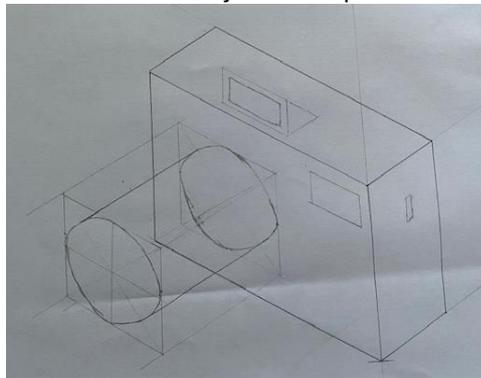
5. If you want to draw a curve or a circle you will not be able to use a compass. Try your best to follow the pictures below to get your circles to look like mine. Notice how I drew the box for the circle to fit into first. The circle will look a little squashed. Can you find out what the name of this is?



6. If you want to add depth like the lens below you need to follow the rules and bring the lines out at the correct angles. This will allow you to draw another box where you can draw the squashed circle.



7. Can you try figure out where to draw the lines to join the squashed circles together?



8. Can you add other designs or extra lens to make your design more detailed? Can you add some shade or outline the shape at the end?

