

Y7 Paper & Card

9 Week Rotation

Online Learning

Choose the week that corresponds with where you are in your rotation and work through the instructions for that week.

Lesson 1: Mood board

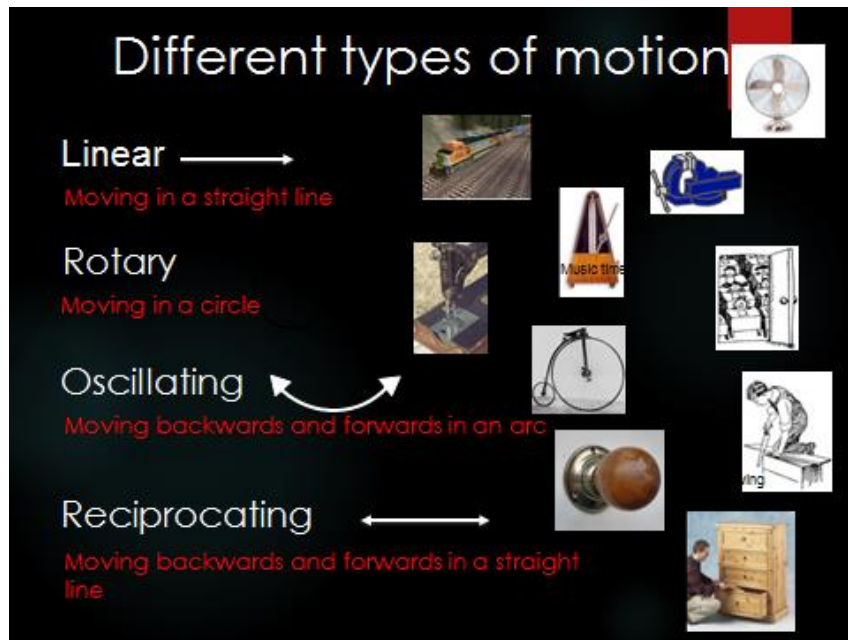
- What is a mood board? A mood board is a range of pictures that overlap each other to form one large picture. There should be no gaps on your page.
- Create a mood board of a movie character and background scenes based on an animation film of your choice.
- Fill one whole page in your book.
- Can be printed and stuck in, or cut & stuck from magazines etc. but must be in colour.



Lesson 2: How paper is made.

- Task 1) Watch this short video on how paper is made. Make sure you take notes on each step.
- <https://www.youtube.com/watch?v=7IP0Ch1Va44&safe=true>
- Task 2) Now create an information sheet with a step by step guide on the process of how paper is made. The information should be clear and must include drawings and writing to explain the process and should be no bigger than 1x A4 page in your books.
- Task 3) Answer the following questions in full sentences on how paper is made on a separate page;
 - Q1: What are cellulose fibres?
 - Q2: What is paper pulp? (NOT fruit pulp!)
 - Q3: Why is it important to recycle old paper?

Lesson 3: Types of Motion



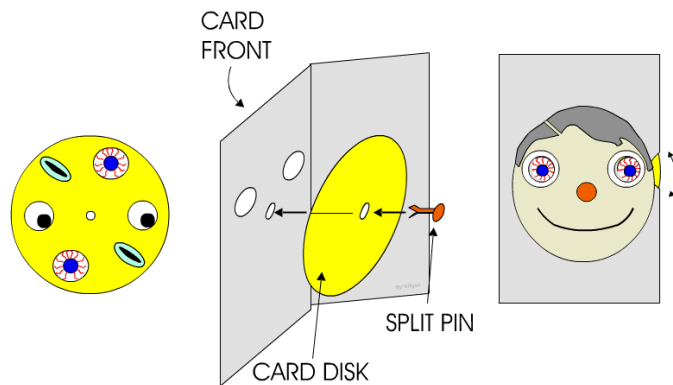
Title: Types of Motion

- Divide a page of your book into 4.
- Copy the 4 types of motion and their definition into one section each.
- Can you work out which example goes with which motion? Some may be more than one!
- See if you can add a new example of your own to each section.

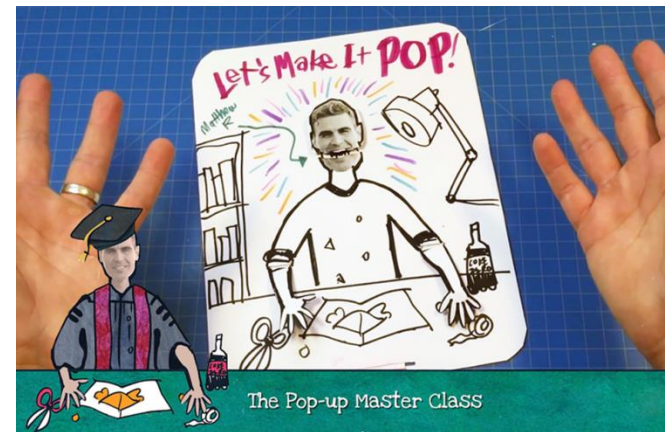
Making mechanisms

- <https://www.technologystudent.com/designpro/popup2.htm>
- <https://www.technologystudent.com/designpro/popup3.htm>

- Look at these 2 pages and then see if you can have a go at making a rotary and a linear mechanism of your own.
- You may not have a split pin, so might have to improvise at home!
- Remember to be careful please!



Lesson 4:



- Go to the link below and watch the first video – V-Folds Part 1
- <http://www.matthewreinhart.com/pop-up-master-class/>
- I would like you to have a go at making a pop-up of your own. Think about the design and how you could include the V-folds in your work.
- Make it as fun and interesting as you can. Use colours to enhance your drawings. Remember to include a background image as well as the moving parts.
- The only equipment you will need is a piece of paper, scissors and colouring pens or pencils.
- Please stick your work into your book when it is complete, but make sure the pop-up can still be used! (Only stick one side down!)

Lesson 5: Drawing task

- Here are links to some video tutorials for 3D drawings. I'd like you to have a look at them and have a go at doing a few!
 - Tips:
 - The artists use pen and draw freehand but they have done this 100s of times! Use a pencil and a ruler and press really lightly until you are sure you have the lines where you need them. THEN you can go over them with a pen if you want to!
 - Watch the clip all the way through then go back to the beginning and play again, pausing after each step while you do that bit of the drawing.
 - Where the artist uses a brush to smudge the pencil lines, you can just blend with your fingertip, but be careful not to smudge the rest of your work.
 - Feel free to do as many as you like, but I'd really like you to try at least 3. You can find more very easily on YouTube if you would like to keep going! I love the 'trick' ones!
 - Have fun!
- <https://www.youtube.com/watch?v=OAq2X-0FbGM>
 - <https://www.youtube.com/watch?v=KnZQYXPJnXU>
 - <https://www.youtube.com/watch?v=jr-zAzxfTVU>
 - <https://www.youtube.com/watch?v=Hm2INxtZ1yE>
 - <https://www.youtube.com/watch?v=j4QuvD3aDe4>
 - <https://www.youtube.com/watch?v=2pxSJsmpASA>

Lesson 6: Designing

- This week I would like you to try designing a pop up card. I'd like you to think of several different themes and come up with some ideas for each.
- Title at the top of a new page...Design Sketches
- Divide the whole page into 4 sections. In each section sketch one idea which you could incorporate into your design, such as the background setting or the pop-up mechanism.
- You need to annotate your design to explain what is being show in each diagram.
- Add colour to make it fun and interesting.
- Try to use some 3D drawing techniques such as tonal shading.

Lesson 7: Plan of Making

- Create a 'Production Plan' of how you will make your design. This is a set of instructions that you could follow to make your design.
- First, you need to make a list of all the equipment you will need. Then think about what you would need to do first. Really explain how to do it and remember to add safety points for using equipment.
- Imagine you needed someone else to make your card and they had no idea how to do it...you are giving them all the steps they would need to follow to make it exactly as you would like it!
- You can produce this how you like...written, typed, as a flow chart, with diagrams if it helps...it's up to you.
- HINT: This is basically like writing a recipe, but for making a card rather than food...think about how that would be set out and how much information would be given...

Lesson 8: Making your card

- You should be making your card in school this week, so I would like you to do as much as possible as you can at home.
- You won't have all the necessary materials, such as split pins and a craft knife, but you can still make most of your card.
 - Using a piece of A4 paper (or thin card if you have it), fold it twice to create the basic shape.
 - If you have a v-fold pop-up, cut it now.
 - Draw in the background on the front and inside, around the pop-up you have already created.
 - Add colour to the whole card.
 - Prepare the moving parts.
 - You can cut out a circle for your rotary mechanism
 - If you have a linear mechanism you can cut out the shape that moves and the 'slider'
 - Mark on your card any sections you would need to cut out later with a craft knife
 - Colour and add detail to all moving parts
- Check your 'plan of making' to make sure you are doing things in the correct order and you haven't forgotten anything.
- Keep everything safe!

Lesson 9: Evaluation

ACCESS FM

- ACCESS FM is an acronym used in Design Technology to help write a specification for a design, or to analyse and describe products which are already on the market.
- You can use the help-sheet on the next slide to create an analysis of your card.
- Set out your work so that it is clear that you are using ACCESS FM, write in full sentences and go into as much detail as you can.
- Try watching the clip on the video link to help you complete your evaluation.
- <https://www.excitededucator.com/home/access-fm-examples>
- Please complete the quiz on SMHW when you have completed your evaluation.

We use **ACCESS FM** to help us write a **specification** - a list of requirements for a design - and to help us **analyse and describe** an already existing product.

ACCESS FM - Helpsheet

A is for **Aesthetics**



Aesthetics means **what does the product look like?**
What is the: Colour? Shape? Texture? Pattern? Appearance? Feel?
Weight? Style?

C is for **Cost**



Cost means **how much does the product cost to buy?**
How much does it: Cost to buy? Cost to make?
How much do the different materials cost? Is it good value?

C is for **Customer**



Customer means **who will buy or use your product?**
Who will buy your product? Who will use your product?
What is their: Age? Gender?
What are their: Likes? Dislikes? Needs? Preferences?

E is for **Environment**



Environment means **will the product affect the environment?**
Is the product: Recyclable? Reuseable? Repairable? Sustainable?
Environmentally friendly? Bad for the environment?
6R's of Design: Recycle / Reuse / Repair / Rethink / Reduce / Refuse

S is for **Size**



Size means **how big or small is the product?**
What is the size of the product in millimeters (mm)? Is this the same size as similar products? Is it comfortable to use? Does it fit?
Would it be improved if it was bigger or smaller?

S is for **Safety**



Safety means **how safe is the product when it is used?**
Will it be safe for the customer to use? Could they hurt themselves?
What's the correct and safest way to use the product? What are the risks?

F is for **Function**



Function means **how does the product work?**
What is the products job and role? What is it needed for? How well does it work? How could it be improved? Why is it used this way?

M is for **Material**



Material means **what is the product made out of?**
What materials is the product made from? Why were these materials used? Would a different material be better? How was the product made? What manufacturing techniques were used?