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**Create an Animation**

***How can you use Transformational Geometry to create an animation?***

**Your task in to create an animation flip pad that shows all three transformations: Translations, Reflections and Rotations.**

**-Your animation can be of whatever you like, but your main objective must be to show an object moving over a coordinate plane.**

**-Draw each step in your animation on a separate coordinate plane, on a new piece of paper. Make sure each plane is identical so that when you put all of the papers together, the animation will look the way you plan.**

**-Make a “title page” for your flip pad.**

|  |
| --- |
| **Carefully plan where to draw each coordinate plane on the graph paper –You may want to make a demo first.**  **More sheets make a more effective animation.**  **Make sure that you staple all of your sheets IN ORDER.**  **You can keep the animation simple – the more details, the more difficult it will be to keep the animation consistent.**  **Be creative and have fun!**  TIPS |

**-You can put all 3 transformations into one flip pad or you can make multiple flip pads to show the different transformations.**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID # \_\_\_**

**Flip Pad Animation Expectations**

***You must:***

|  |  |  |
| --- | --- | --- |
| **Expectation** | **Yes (One mark for each check)** | **No** |
| **-Label the x and y axis** |  |  |
| **- Label each quadrant correctly** |  |  |
| **-Label the origin** |  |  |
| **-Include at least one translation** |  |  |
| **-Include at least one reflection** |  |  |
| **-Include at least one rotation** |  |  |
| **-Label the coordinates of one shape, translate it and label the new coordinates (x2 )** |  |  |
| **-Label how many units horizontally and vertically the shape was moved (x2)** |  |  |
| **-Label the coordinates of one shape, reflect it and label the new coordinates (x2)** |  |  |
| **-Identify the line of reflection** |  |  |
| **-Label the coordinates of one shape, rotate it and label the new coordinates (x2)** |  |  |
| **-Label the center of rotation** |  |  |
| **-Include a Title Page/Cover** |  |  |
| **-Color your animation** |  |  |
| **-Staple your flip pad with the drawings IN ORDER** |  |  |
| **-Create approx. 20 drawings** |  |  |

Comments:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total =

BONUS

***Optional Extension:***

Create a real animation with your flip pad by making a Slide Show Presentation (5 Bonus marks)

Once you've created your flip pad, you'll have gained an understanding of what animators do to create many of the cartoons and movies that we watch every day.

To see your animation come to life ( and to gain 5 BONUS marks), scan each page and create a Slide Show presentation, one picture per slide. When all of the individual pictures are scanned in and you play your slide show, your characters will move across the screen - just like in the movies.

Tips to Making Your Slide Show as Effective as Possible

1) Under the HOME tab, choose "Blank" or "Photo with caption" to insert your drawings

2) Under the ANIMATIONS tab, set Transition speed as "Fast" and click "Apply to all"

3) Under the ANIMATIONS tab, click "Automatically After", NOT "On Mouse Click" and set the time for 00:01 (one second).

4) Make sure that all of your animations are in order so that the characters/picture will move the way you intended

5) Scan in and save each of your drawings (in order) numbering them as you save them (pic1, pic2...etc)

**computer.WMFSteps to Making a Slide Show**

*(After all of your illustrations are scanned and saved)*

1) Open Microsoft PowerPoint

2) Choose a **Layout** (Blank or Picture with Caption)

3) Using the **Design** tab, choose a background design (SAME design for every slide)

4) Under the **Insert** tab, click **Picture**

5) Select your title page as the first picture

6) Add a border if you like (keep the same border for every picture if you choose a border).

7) Go back to the **Home** tab and click **New Slide**.

8) Insert your first illustration into Slide 2.

9) Go back to insert another **New Slide**, until you have all of your illustrations added to your Slide Show

10) Don't forget to **SAVE**

11) Under the **Animations** tab, make sure the following settings are chosen: **"Fast"** and **"Automatically After"**. Set the time for **00:01**. Make sure "On Mouse Click" is not checked. Click **"Apply to All"**.

12) Now you've created a basic slide show. Go to the **Slide Show** tab and you can watch your show "From Beginning" to see how it looks. It's when you do this, that you may find mistakes in your flip pad, that you may want to fix up!

