TECHNOAnimate Teacher Guide

Lessons for Middle & High School Students: Grades 6-12



In this project, students become animators. They learn animation techniques by creating scenes for a graphic story in Animate 2022. By completing a series of activities, they discover how to produce realistic movement using frame by frame, motion tweens, shape tweens, Asset Warp Tool, motion paths, and classic tweens. Once they have mastered the basics of animation, they apply their skills to design a unique project such as a graphic novel, electronic greeting card, or advertisement.



Copyright © 1993 – 2024 TechnoKids Inc. All Rights Reserved

Contents

Introduction Getting Started	
How to Use This Guide	
How to Use the Resource Files	ii
Project Overview	iv
Technology Integration Ideas	V
Preparing to Teach TechnoAnimate	vi
Session 1 Out of This World	
Session 1 Getting Started	1
Overview	
Materials	1
Teacher Preparation	1
Teaching Strategy	1
Lesson Plan	4
Learning Objectives	
Assignment 1 An Introduction to Animation	7
What Is Animation?	
About the History of Animation	/ / ح
Ouestions About the History of Animation	/ o
Assignment 2 View on Animeted Story	0
Assignment 2 view an Animateu story	
Learn About Types of Animation	
Answer Ouestions about the Animated Story	۰
Assignment 3 Explore Adobe Animate 2022	
Open Adobe Animate	
Edit a Toolbar to Find Tools	
Explore the Tools Panel	
View the Property Inspector	
View the Library	12
About Panels	
Explore Panels	
Reset the Workspace to Default	
Close the Animate Program	14 1 <i>1</i>
Assignment 4 Create Lines and Shapes	15
About Drawing Modes	
About Object Drawing Mode	
About Merge Drawing Mode	
Open the Animate Program	
Draw a Line with Object Drawing Mode Off	16
Draw a Line with Object Drawing Mode On	
What Did You Learn About Object Drawing Mode?	
Draw a Rectangle with Object Drawing Mode Off	الاستىرىيىيىيىيىيىيىيىيىيىيىيى 10-
Draw a Rectangle with Object Drawing Mode On	10
Edit the Entire Rectangle	
Draw a Square	
What More Did You Learn About Object Drawing Mode?	
Draw an Oval with Object Drawing Mode Off	
Draw an Oval with Object Drawing Mode On	
what Did You Learn About Which Drawing Mode to Use?	
use the selection tool to Move, Bend, and Kesnape	
Use the Free Transform Tool to Scale Skew and Rotate	21 27
What Did You Learn About Transforming a Shape?	
Format the Stroke and Fill Color of a Shape	
What Did You Learn About Formatting the Stroke or Fill?	

Close the Animate Program	23
Assignment 5 Draw with the Pencil and Brush	24
About Drawing Modes	24
Open the Animate Program and Customize the Tools Panel	24
Draw Lines with the Pencil to Make Clouds with Object Drawing Mode Off	25
Fill the Clouds with Color	25
Merge a Cloud with Another Draw a Sup Using the Reneil Icel with Object Drawing Mede On	
Fill the Sun with Color in the Editing Pane	20
Move the Sun Around the Stage	
Paint Fills Using the Classic Brush Tool with Object Drawing Mode Off	
Use Paint Normal Mode to Paint Fills, Strokes, and the Stage	
Use Paint Fills Mode to Paint Fills and the Empty Parts of the Stage	
Use Paint Benind Mode to Paint the Stage but Leave Fills and Strokes Untouched	29
Use Paint Selection Mode to Paint a Selected Alea	
Draw a Tree Using the Classic Brush Tool with Object Drawing Mode On	
Use the Paint Brush Tool to Decorate the Painting	31
Explore the Eraser Tool	32
Use the Faucet Option to Erase	
Explore the Text Tool	
Export the Stage as a Picture File	
Close the Animate Program	
Assignment 6 Explore Drawing Tools on the Tools Panel	
Open the Animate Program	
Make the Ground	
Draw a Flower with Petals	34
Make a Tulip and Clouds	
What Do These Tools Do?	
Export the Stage as a Picture File	
Close the Animate Program	
Assignment 7 Use Editing Pane to Make a Car	
About the Editing Pane and Object Drawing Mode	
Open the Animate Program	
Draw the Car Body	36
Draw a lire	
DupilCate the file Draw the Car Ion and Adjust the Stacking Order	
Edit a Grouped Object in the Editing Pane	
Return to the Stage	
Group the Car Parts	
Edit the Grouped Objects in the Editing Pane	
Ungroup Objects	
Save Your Work as an Animale document Export the Stage as a Picture File	
Close the Animate Program	
Assignment 8 Take the Drawing Challenge	40
Challenge One: Draw a Bear	
Challenge Two: Draw a Chick	41
Assignment 9 About the Timeline	43
Open the Animate Program	43
About the Timeline	43
About Frames	44
About the Frame Rate	
About Lavers	45 15
About Scenes	40 46
Close the Animate Program	

Assignment 10 Create Scene 1 - In a Land Far, Far Away.47View a Sample Scene.47Open the Animate Program47Describe the Setting in Frame 147Create the Character in Frame 60.48Add a Picture to the Library as a Graphic Symbol49Insert a Symbol from the Library.49Insert a Symbol from the Alien but Keep the Original Intact49Break Apart the Alien to Make Changes While Keeping the Original Intact50Delete the Newly Added Alien.50Introduce the Plot in Frame 120.50Copy an Object from Frame 1 to the Same Place in Frame 120.50Test the Scene to Discover a Problem51Solve the Problem by Inserting a Blank Keyframe51Save the Animate Document and Close the Animate Program.51Session 1 Review: About Animate52Session 1 Extension Activity: Flip and Align Objects58		
View a Sample Scene.47Open the Animate Program47Describe the Setting in Frame 147Create the Character in Frame 60.48Add a Picture to the Library as a Graphic Symbol49Insert a Symbol from the Library.49Insert a Symbol from the Alien but Keep the Original Intact49Break Apart the Alien to Make Changes While Keeping the Original Intact50Delete the Newly Added Alien50Introduce the Plot in Frame 120.50Copy an Object from Frame 1 to the Same Place in Frame 120.50Test the Scene to Discover a Problem51Solve the Problem by Inserting a Blank Keyframe51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	Assignment 10 Create Scene 1 – In a Land Far, Far Away	47
Open the Animate Program47Describe the Setting in Frame 147Create the Character in Frame 6048Add a Picture to the Library as a Graphic Symbol49Insert a Symbol from the Library49Transform the Alien but Keep the Original Intact49Break Apart the Alien to Make Changes While Keeping the Original Intact50Delete the Newly Added Alien50Introduce the Plot in Frame 12050Copy an Object from Frame 1 to the Same Place in Frame 12050Test the Scene to Discover a Problem51Solve the Problem by Inserting a Blank Keyframe51Edit the Timing of the Scene51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	View a Sample Scene	47
Describe the Setting in Frame 147Create the Character in Frame 6048Add a Picture to the Library as a Graphic Symbol49Insert a Symbol from the Library49Transform the Alien but Keep the Original Intact49Break Apart the Alien to Make Changes While Keeping the Original Intact50Delete the Newly Added Alien50Introduce the Plot in Frame 12050Copy an Object from Frame 1 to the Same Place in Frame 12050Test the Scene to Discover a Problem51Solve the Problem by Inserting a Blank Keyframe51Edit the Timing of the Scene51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	Open the Animate Program	47
Create the Character in Frame 60	Describe the Setting in Frame 1	47
Add a Picture to the Library as a Graphic Symbol49Insert a Symbol from the Library49Transform the Alien but Keep the Original Intact49Break Apart the Alien to Make Changes While Keeping the Original Intact50Delete the Newly Added Alien50Introduce the Plot in Frame 12050Copy an Object from Frame 1 to the Same Place in Frame 12050Test the Scene to Discover a Problem51Solve the Problem by Inserting a Blank Keyframe51Edit the Timing of the Scene51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	Create the Character in Frame 60	
Insert a Symbol from the Library.49Transform the Alien but Keep the Original Intact49Break Apart the Alien to Make Changes While Keeping the Original Intact50Delete the Newly Added Alien.50Introduce the Plot in Frame 120.50Copy an Object from Frame 1 to the Same Place in Frame 120.50Test the Scene to Discover a Problem51Solve the Problem by Inserting a Blank Keyframe51Edit the Timing of the Scene51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	Add a Picture to the Library as a Graphic Symbol	
Transform the Alien but Keep the Original Intact49Break Apart the Alien to Make Changes While Keeping the Original Intact50Delete the Newly Added Alien50Introduce the Plot in Frame 12050Copy an Object from Frame 1 to the Same Place in Frame 12050Test the Scene to Discover a Problem51Solve the Problem by Inserting a Blank Keyframe51Edit the Timing of the Scene51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	Insert a Symbol from the Library	
Break Apart the Alien to Make Changes While Keeping the Original Intact50Delete the Newly Added Alien50Introduce the Plot in Frame 12050Copy an Object from Frame 1 to the Same Place in Frame 12050Test the Scene to Discover a Problem51Solve the Problem by Inserting a Blank Keyframe51Edit the Timing of the Scene51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	Transform the Alien but Keep the Original Intact	
Delete the Newly Added Alien50Introduce the Plot in Frame 12050Copy an Object from Frame 1 to the Same Place in Frame 12050Test the Scene to Discover a Problem51Solve the Problem by Inserting a Blank Keyframe51Edit the Timing of the Scene51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	Break Apart the Alien to Make Changes While Keeping the Original Intact	50
Introduce the Plot in Frame 120	Delete the Newly Added Alien	50
Copy an Object from Frame 1 to the Same Place in Frame 120	Introduce the Plot in Frame 120	50
Test the Scene to Discover a Problem51Solve the Problem by Inserting a Blank Keyframe51Edit the Timing of the Scene51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	Copy an Object from Frame 1 to the Same Place in Frame 120	
Solve the Problem by Inserting a Blank Keyframe51Edit the Timing of the Scene51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	Test the Scene to Discover a Problem	51
Edit the Timing of the Scene51Save the Animate Document and Close the Animate Program51Session 1 Review: About Animate52Session 1 Skill Review: Design a Cartoon55Session 1 Extension Activity: Flip and Align Objects58	Solve the Problem by Inserting a Blank Keyframe	51
Save the Animate Document and Close the Animate Program	Edit the Timing of the Scene	51
Session 1 Review: About Animate	Save the Animate Document and Close the Animate Program	51
Session 1 Skill Review: Design a Cartoon	Session 1 Review: About Animate	
Session 1 Extension Activity: Flip and Align Objects	Session 1 Skill Review: Design a Cartoon	
	Session 1 Extension Activity: Flip and Align Objects	

Session 2 On an Alien Planet

Contents

Session 2 Getting Started	
Overview	61
Materials	61
Teacher Preparation	61
Teaching Strategy	61
Lesson Plan	
Learning Objectives	
Assignment 11 What Is Frame by Frame Animation?	
What Is Frame by Frame Animation?	
Questions about Frame by Frame Animation	
Study the Frame by Frame Animation Samples	
Assignment 12 Create Scene 2 – The Planet	
View a Sample Scene	
Open the Animate Document	
Insert a New Scene	
View Each Scene in the Story	
Insert the Alien Symbol from the Library	
Animate the Ground Using Frame by Frame Animation	
Animate Grass Using Frame by Frame Animation	
Draw a Flower Blooming Using Frame by Frame Animation	
Describe the Scene with Words	
Solve the Problem by Adding a New Layer	
Rename a Layer	
Move the lext from Layer_I onto the words Layer	
Make the Words Appear at the same time the Action Occurs	
Complete the Scene	
Test the Movie to Watch All the Scenes Play	
Close the Animate Drogram	
Assignment 13 Create Scene 3 – The Hover Craft	
View a sample scene	
Open the Animate Document	
Draw a Rumpy Planot Surfaco	
Draw a Bourpy France Surrace	
Animate the Hover Craft Using Frame by Frame Animation	
Add Words on a New Laver to Describe the Action	
Test the Scene	74
Save the Animate Document and Close the Program	

Assignment 14 Frame by Frame Animation Challenge	75
Animate a Flashing Sign	
Animate a Waving Rock Creature	
Save the Animate Document and Close the Program	76
Session 2 Review: About Frame by Frame Animation	77
Session 2 Skill Review: Animate a Dog's Tail Wagging	
Session 2 Extension Activity: Using Layers	
Session 3 Blast Off into Outer Space	
Session 3 Getting Started	83
Overview	
Materials	
leacher Preparation	
lesson Plan	03 85
Learning Objectives	
Assignment 15 What Is a Motion Tween?	87
What Is Tweening?	
What is a Motion Tween?	
Questions about Motion Tweens	
Study Motion Tween Samples	
Assignment 16 Create Scene 4 – Blast Off	
View a Sample Scene	
About Making a Motion Tween	
Open the Animate Document and Insert a New Scene	
Draw a Spaceship and Save as a Symbol in the Library	
Set the End Point of the Motion Tween	
Add Points to the Motion Path to Change the Flight Path	
Resize the Spaceship	
Change the Position of the Object to Change the Motion Path	
Resize, Skew, and Rotate the Motion Path	
Use the Selection Tool to Move, Bend, and Reshape the Motion Path	
Solve the Problem to Create a Background	
View the Stage in Onion Skin View	
And Wolds to Describe the Action on a New Layer	
Save the Animate Document and Close the Program	
Assignment 17 Create Scene 5 – In Outer Space	
View a Sample Scene	96
Open the Animate Document and Insert a New Scene	
Insert the Spaceship from the Library	
Use a Motion Tween to Animate the Spaceship	97
Create a Space Background	
Add Words to Describe the Action on a New Layer	
Tost the Movie to Watch All the Scones Play	
Save the Animate Document and Close the Program	
Assignment 18 Motion Tween Animation Challenge	90
Animate a Spinning Star	00
Animate a Flying Comet	
Session 3 Review: About Motion Tweens	
Session 3 Skill Review: Animate an Alien Flying Ship	
Session 3 Extension Activity: Create a Movie Clip	
Session 4 The Strange Planet	
Session 4 Getting Started	109

session 4 Getting Started	109
Overview	
Materials	
Teaching Strategy	
99,	

Contents https://www.technokids.com/store/high-school/technoanimate/animation-for-beginners.aspx

Lesson Plan	111
Learning Objectives	
Assignment 19 What Is a Shape Tween?	113
What Is a Shape Tween?	
Questions About Shape Tweens	
Assignment 20 Create Scope 6 - A Strange Meen	
Assignment zo create scene o – A strange Moon	
About Making a Shape Tween	
Open the Animate Document, Insert a New Scene, and Rename the Layer	
Draw the Two Shapes of the Moon	
Create a Shape Tween to Morph the Moon from One Shape into Another	
Make Changes to the Final Shape	
Convite Frames to Morph the Moon Repeatedly	
Create a Space Background	
Test the Scene	
Add Words to Describe the Action on a New Layer	
lest the Movie to Watch All the Scenes Play	
Save the Animate Document and Close the Program	
Assignment 21 Create Scene 7 – Allen Friend	
Open the Animate Document	
Insert a New Scene	
Add Two Aliens onto the Stage from the Library	
Create an Alien Friend by Breaking Apart the Symbol	
Draw the Starting Shape of the Mouth	
Draw the Ending Shape of the Mouth from One Shape into Apother	
Solve the Problem to Have the Mouth Return to Its Initial Shape	
Copy the Frames to Morph the Mouth Repeatedly	
Create a Space Background	
lest the Scene	
Test the Movie to Watch All the Scenes Play	123
Save the Animate Document and Close the Program	
Assignment 22 Shape Tween Animation Challenge	
Animate a Morphing Sun	
Animate a Shape Shifting Body Part	
Session 4 Review: About Shape Tweens	
Session 4 Skill Review: Morph Words	
Session 4 Extension Activity: Working with Scenes	129
Session 5 Coming Home	
Session 5 Getting Started	
Overview	
Materials	
Teaching Strategy	
Lesson Plan	
Assignment 23 What is the Asset Warn Tool?	
What is the Asset Warp Tool?	130
What is a Classic Tween?	
Questions About the Asset Warp Tool	
Study Asset Warp Tool Sample	140
Assignment 24 Create Scene 8 – Dance Party	141
View a Sample Scene	
About Using Asset Warp Tool	
Draw a Party Streamer With the Paint Brush Tool	141
J	=

Animate the Streamer Using the Asset Warp Tool	142
Apply a Classic Tween to the Streamer	143
Draw a Starburst and Animate the Shape Using the Asset Warp Tool	
Draw a Dancer	
Add bones to the Dancer osling the Asset waip root	
Create a Background to Illustrate the Location of the Party	
Add Words to Describe the Action on a New Layer	146
Save the Animate Document and Close the Program	146
Assignment 25 Edit Scene 8 – More Dancing	147
View a Sample Scene	
Open the Animate Document and Insert a New Movie Clip Symbol	
Close the Editing Pane and View Scene 8	140
Insert the Robot Movie Clip into Scene 8	
Test the Scene	149
Move the Robot Using a Motion Tween	
Use Your Skills to Complete the Scene	
Save the Animate Document and Close the Program	
Assignment 20 What is a Motion Path?	
Ouestions About a Motion Path	
Study Motion Path Samples	
Assignment 27 Create Scene 9 – Leave Planet	
View a Sample Scene	
Open the Animate Document, Insert a New Scene, and Rename the Layer	154
Draw a Motion Path to Animate the Spaceship	
Place the Spaceship onto the Motion Path	
Add a Classic Tween to the Spaceship	
Test the Scene	
Adjust the Size and Orientation of the Spaceship	
Dim the Spaceship as It Flies Away	
Create a Background to Illustrate the Planet Surface	
Test the Movie to Watch All the Scenes Play	
Save the Animate Document and Close the Program	
Assignment 28 Create Scene 10 – Land Back Home	
View a Sample Scene	
Open the Animate Document, Insert a New Scene, and Rename the Layer	158
Draw a Motion Path in a Loop Pattern	
Animale line spacesnip using a Classic Iween Test the Scene to Discover a Problem	159
Orient the Motion to the Path to Create Realistic Movement	
Set the Easing Value to Slow the Ship Down as it Lands	
Change Color Along the Motion Path	
Create a Background to Illustrate the Home Planet	
Add Words to Describe the Action on a New Layer	
Save the Animate Document and Close the Program	
Assignment 29 Motion Path Animation Challenge	
Animate a Rolling Rock	
Animate an Alien Leaving the Ship	
Session 5 Review: About the Asset Warp Tool & Motion Paths	
Session 5 Skill Review: Animate a Worm Creature	
Session 5 Extension Activity: Keyboard Shortcuts	
Session S Extension Activity, Reyboard Shortedts	170
Session 6 Add Sound, Export the Movie	
Session 6 Getting Started	173

Contents https://www.technokids.com/store/high-school/technoanimate/animation-for-beginners.aspx

Overview	
Materials	
Teacher Preparation	
Teaching Strategy	
Lesson Plan	
Learning Objectives	
Assignment 30 Add Music or Effects to Scenes	
View a Sample Movie	
Gather Sound Clips	
Open the Animate Document and View Scene 1	
Add a Layer and Rename It Sound	179
Import a Sound File into the Library	179
Add Sound to Scene 1	
Apply a Fade Effect	
Prevent the Sound from Playing Too Long by Setting the Sync Option	
Complete the Soundtrack	
Iest the Movie to Watch All the Scenes Play	
save the Animate Document and Close the Program.	
Assignment 31 Edit the Document and Export as a Movie	
Improve the Space Adventure	
Edit the Space Adventure	
Export the Document as a Flash Movie	
Space Adventure Marking Sheet	
Session 6 Review: Animate Word Search	
Session 6 Skill Review: Express Yourself	
Session 6 Extension Activity: Export as a video	
Session 7 Make Your Own Movie	
Session 7 Getting Started	
Overview	
Materials	
Teacher Preparation	191
Lesson Plan	
Learning Objectives	

Learning Objectives	
Assignment 32 Select an Idea	
Idea: Make an Animated Scene	
Idea: Create a Short Story, Novel, or Cartoon	
Idea: Design an Advertisement	
Idea: Animate a Greeting Card	
Describe Your Movie Idea	
Assignment 33 Create the Document	
Organization Tips	
Time Saving Tips	
Drawing Tips	
Animation Tips	
Sound Tips	
Assignment 34 Share the Movie with Others	
Improve Your Movie	
Export the Document as a SWF Movie	
Explain Your Artistic Choices	
Session 7 Review: Animate Review	

Appendices

Appendix A: Assessment Tools	
Appendix B: Glossary	210
Contact Information	212

This is a preview of the teacher guide. Pages have been omitted.

TECHNOKids



In this session, students continue animating their space adventure. They create two scenes using frame by frame animation. To start, they create the planet surface that shows grass growing and a flower blooming. Afterwards, they apply their new skills to make a hover craft drive over bumpy terrain. The session ends with students selecting an Animation Challenge and creating it using Frame by Frame Animation.

Assignment 11: What Is Frame by Frame Animation?

Assignment 12: Create Scene 2 – The Planet

Assignment 13: Create Scene 3 – The Hover Craft

Assignment 14: Frame by Frame Challenge

Session 2 Review: About Frame by Frame Animation

Session 2 Skill Review: Animate a Dog's Tail Wagging

Session 2 Extension Activity: Using Layers

Assignment 11 What Is Frame by Frame Animation?

In this session, you are going to animate using frame by frame animation. Frame by frame animation is used to move an object from one position to another, by creating content in every frame. Although creating this type of animation does take time, it is a great way to gain control over how an object will move across the stage. In this assignment, you will read about frame by frame animation and view sample videos.



What Is Frame by Frame Animation?

Frame by frame animation uses keyframes in EVERY frame of the Timeline. A keyframe copies the content from the previous keyframe. The keyframes in frame by frame animation are placed right beside each other. Slight changes are then made to the objects in each frame. These changes are seen as movement when the animated sequence is played.



In frame by frame animation, a keyframe is placed into every frame of the Timeline.

Frame by frame animation is a lot like what animators used to do in the past. Before there were computers, animators used to draw the character in a new position, one frame at a time. To create animation using this technique is a time-consuming task, however, it does offer lots of control over how the object moves.

Questions about Frame by Frame Animation

1. What is frame by frame animation?

Animation that is created by placing a keyframe in EVERY frame, with slight changes made to the content of each keyframe.

2. Frame by frame animation uses keyframes. How is a keyframe different from a blank keyframe?

A blank keyframe is empty, whereas a keyframe copies the content of the previous keyframe.

Study the Frame by Frame Animation Samples

View two sample videos created using frame by frame animation. One is of an alien landscape with an animated planet surface. The second is of a flying hover craft. Afterwards, answer the questions about frame by frame animation.

> Access the Animate folder. Open the Scenes folder.

The Alien

- > Double click the Scene 2 file to watch the animated scene.
 - 3. What different events occur in each frame of the animation?



The grass gradually grows and the flower blooms.

 \triangleright Close the file.

The Hover Craft

- ▷ Double click the Scene 3 file to watch the animated scene.
 - 4. How would you describe the animation of the hover craft in this scene?



It is choppy and slow.

 \triangleright Close the file.

Assignment 12 Create Scene 2 - The Planet

In this assignment, you will create Scene 2 in your space adventure using frame by frame animation. Use your skills to draw the planet surface. Follow the instructions to animate the ground appearing, grass growing, and flower blooming.



View a Sample Scene

- ▷ Access the Animate folder. Open the Scenes folder.
- ▷ Double click the Scene 2 file to watch a sample from an animated story.



Please note, the sample includes sound, which is a feature that will be added to the Timeline in Session 6.

Open the Animate Document

Open the document in the Animate program. The document opens to show the last scene you were editing. In this case, the scene in view should be Scene 1.

Insert a New Scene

When making an animated story with the Animate program it is a good idea to divide the events into scenes. Each scene has its own stage, Timeline, and layers.

- ▷ From the Insert menu, select Scene.
- A new stage opens in the window. It has an empty Timeline. You will notice that the Scene Number reads Scene 2.



If you cannot see the Scene Number, select *Edit Bar* from the Window menu.

View Each Scene in the Story

Scene 1 has not been deleted. It is still part of the animated story. You can easily switch from Scene 2 to Scene 1 and back again. Try it!

Click the Edit Scene arrow on the Edit Bar. From the list click Scene 1.



▷ Click the Edit Scene arrow again and this time select Scene 2.

Insert the Alien Symbol from the Library

In the previous session, you created an alien and placed it into the Library. The Library lets you use the same object repeatedly without needing to redraw it. Insert the alien from the Library.

- ▷ From the Window menu, select *Library*.
- \triangleright Click on the alien symbol and drag it onto the stage.



 \triangleright Deselect the alien by pressing the ESC key on the keyboard.

Animate the Ground Using Frame by Frame Animation



You are going to have the ground gradually appear underneath the alien using frame by frame animation. Unlike the previous session when you used blank keyframes, you are going to use keyframes. The difference between the two is that a keyframe copies the content of the previous frames into the new one. This means everything you drew before the keyframe remains on the stage, whereas a blank keyframe is empty.

- ▷ From the Tools Panel, select the Pencil Tool. 🖍
- ▷ From the *Properties* tab, select a stroke color, size, and style.

Properties Library Assets		
Tool Object F	rame	Doc
🖋 Pencil		
■ [5]		
 Color and Style 		
Color and Style Stroke	*	100 %
Color and Style Stroke Stroke size	*	100 % 20
Color and Style Stroke Stroke size Style:	*	<u>100 %</u> 20

- Turn Object Drawing Mode OFF.
- Click Pencil Mode in the Property Inspector or Tools Panel. SHINT: Try Smooth.



▷ Starting from the left side of the stage, draw a short line.



- \triangleright Add a keyframe:
 - o Right click on Frame 5 in the Timeline.

Draw a short line for the ground.

• Select Insert Keyframe or press F6 on the keyboard.

- > Draw another short line and then add a keyframe:
 - o Click the stage to deselect all objects. ► TIP: ctrl + shift+ A
 - o Beginning where the last line ended, draw another short line.
 - o Right click Frame 10 in the Timeline. Select Insert Keyframe or press F6.
- Select Frame 1. Press the ENTER key to watch the animation. Notice it appears choppy.
- Continue to draw short lines and add keyframes to the Timeline until the ground reaches across the entire stage.



Animate Grass Using Frame by Frame Animation

Frame by frame animation looks the best when there is a new action in EVERY frame. When the ground appears, it looks choppy. This is because there are several frames between keyframes. You are now going to make grass grow. This time there will be a keyframe in each consecutive frame. You will notice a big difference in the smoothness of the animation.



- ▷ From the Tools Panel, select the Pencil Tool. 🖍
- ▷ From the Properties tab, select a stroke color, size, and style.
- ▷ Pick Pencil Mode from the Property Inspector or Tools Panel. S HINT: Try Smooth.
- > Draw a blade of grass near the left side of the stage coming up from the ground.



Click on the frame beside the last keyframe in the Timeline. Right click the mouse and select Insert Keyframe or press F6 on the keyboard.

																Π
5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
					1s						25		TT		1111	

Add a keyframe right beside the last keyframe in the Timeline.

 \triangleright Draw blades of grass:

around appears.

- o Click the stage to deselect all objects. ► TIP: CTRL + SHIFT+ A
- o Draw a blade of grass beside the last one you made. 🖍
- Right click the frame beside the last keyframe in the Timeline. Select Insert Keyframe or press F6.
- o Repeat until the grass reaches across the stage.



Select Frame 1. Watch the animation by pressing the ENTER key. Notice that the grass grows quickly, and the animation is smooth.

80

60 65 70 75

- grass grows – each frame is a keyframe

Draw a Flower Blooming Using Frame by Frame Animation

Make a flower grow. To start you will animate the stem and some leaves. After that the center of the flower will appear, with one petal at a time blooming.

- \triangleright Draw a stem:
 - o From the Tools Panel, select the Pencil Tool. ✔
 - From the Properties tab, select a stroke color, size, and style.
 - o Turn Object Drawing Mode OFF. 🖲
 - o Draw a stem.



- \triangleright Add a leaf:
 - Click on the frame beside the last keyframe in the Timeline. Right click the mouse and select *Insert Keyframe* or press F6 on the keyboard.
 - o Click the stage to deselect all objects. ► TIP: ctrl + shift+ A
 - o Draw a leaf onto the stem using the Pencil Tool. 🖍
 - Select the Paint Bucket Tool . Select a fill color. ■
 HINT: From the Tool Options set the Gap Size to Close Large Gaps.



- o Fill the leaf shape with color.
- \triangleright Complete the flower:
 - Click on the frame beside the last keyframe in the Timeline.
 Right click the mouse and select *Insert Keyframe* or press F6 on the keyboard.
 - o Using the Pencil Tool draw the center of a flower. ≁ Fill it with color. ♦
 - o Insert a keyframe into the Timeline.
 - o Deselect all objects.
 - o Using the Pencil Tool draw a petal. ✔ Fill it with color. �
 - Continue to draw petals and add keyframes until the flower has bloomed.
- ▷ Select Frame 1. Watch the animation by pressing the ENTER key.



TIP: To delete a keyframe right click on the frame in the Timeline and select *Remove Frames.*

Describe the Scene with Words

Add text to describe the action in Scene 2. The viewer needs to be able to read the words at the SAME TIME as the action is occurring on the screen. Test the scene to discover a problem with the animated sequence and learn how to fix it.

 \triangleright Click on Frame 1. Use the Text Tool **T** to type the words:

The alien looked around. Each day was the same. The grass grew and the flowers bloomed. He wanted to see something different.



The words must be in view for a long time so that they can be read. Discover how to fix the problem!

- ▷ Watch the story using the Test Scene feature:
 - From the Control menu select *Test Scene*. The movie opens into a preview pane and will continually loop.
 - What is the problem? The words disappear after the first frame. Had the text been added to Frame 1 before all the keyframes were added, it would be on the screen the entire time. This is because a keyframe copies the contents of the previous frame into the new one. However, the text was added later.
- ▷ Click the Close button on the Test windowpane to exit the preview.

Solve the Problem by Adding a New Layer

To solve the problem, you need to add a layer to the Timeline. By placing objects on different layers, you can have different events occurring at the same time.

- \triangleright Click New Layer \pm at the bottom of the Layers area of the Timeline.
- Notice how a new layer has now been added above Layer_1. The layer you are currently editing is blue. Study the layer area:
 - & Show or Hide: Show or hide a layer.



- Lock or Unlock: Set the layer to permit or prevent edits.
- Show Layer as Outline: Display layer as solid or an outline like a coloring book.

🕀 🖬 🛍	• 🛛 🗞 🔒	5 10
ᠳ Layer_2		0
🕤 Layer_1	•	• • • •

Rename a Layer

It is a good idea to name a layer to tell about what types of objects are on it. You are going to rename Layer 2 to Words.

- \triangleright Double click on the text Layer_2.
- ▷ Type Words. Press the ENTER key.

https://www.technokids.com/store/high-school/technoanimate/animation-for-beginners.aspx

Move the Text from Layer_1 onto the Words Layer

You now need to cut the words from Layer_1 and paste them onto the Words Layer.

- \triangleright Click on Layer_1.
- ▷ Select Frame 1 in the Timeline.
- ▷ From the Tools Panel, click the Selection Tool.
- Select the text box in Frame 1. From the Edit menu, select Cut. Or right click and from the options, select Cut.
- Click on the Words Layer. From the Edit menu, select Paste in Place. Or right click on the stage and select Paste in Place.
- \triangleright Study the Timeline to notice the change:



Make the Words Appear at the Same Time the Action Occurs

- ▷ Select Frame 1 in the Timeline.
- Press ENTER to play the scene.
 Notice the text is in view the entire time that the action occurs.

Complete the Scene

▷ Use your skills to view the animation. Make edits to the scene.

ANIMATION TIPS

Scene Is Too Short: If the scene is too short the words may be difficult to read. If this happens, draw another animated flower on the Layer_1 layer to extend the action.

There Is No Room for an Extra Animated Object: If the scene is too short, but there is no room on the stage to create another object, place another keyframe in the Layer_1 and the Words layers. It should be about 15 frames longer than the last keyframe. This will create a static image which will make the text easy to read.

Words Disappear: If the scene does not play the words for the entire time, add a keyframe to the Timeline in the Words layer that is the same frame number as the keyframe that contains the final action in Layer_1.

Test the Movie to Watch All the Scenes Play

- ▷ From the Control menu, select Test Movie.
- Select In Animate.
- \triangleright Watch the story.
- ▷ When finished, close the Preview window.

Save the Animate Document

 \triangleright From the File menu, select Save.

Close the Animate Program

Assignment 13 Create Scene 3 - The Hover Craft

In this assignment, you will create Scene 3 in your space adventure using frame by frame animation. Use your skills to draw a hover craft. Follow the instructions to animate it driving over bumpy terrain.

View a Sample Scene

- ▷ Access the Animate folder. Open the Scenes folder.
- ▷ Double click the Scene 3 file to watch a sample from an animated story.



Please note, the sample includes sound, which is a feature that will be added to the Timeline in Session 6.

Open the Animate Document

Open the document in Animate 2022. The document opens to show the last scene you were editing. In this case the scene in view should be Scene 2.

Insert a New Scene and Rename Layer 1

- ▷ From the Insert menu, select Scene.
- A new stage opens in the window. It has an empty Timeline. You will notice that the Scene Number reads Scene 3.
- ▷ Double click Layer_1 and name it Hover_Craft. Press ENTER.

Draw a Bumpy Planet Surface

- On the Hover Craft layer, draw a bumpy planet surface. Be creative! If you need help, follow these instructions:
 - o From the Tools Panel, select the Rectangle Tool.
 - o Turn Object Drawing Mode OFF.
 - o Select the SAME stroke and fill color. 🖥
 - o Draw a rectangle.
 - o From the Tools Panel, select the Pencil Tool. ♪
 - Turn Object Drawing Mode OFF. Change the stroke color to the SAME color as the rectangle.
 - Place the pencil on the <u>edge</u> of the rectangle and start to draw a bumpy line. End the line by touching the <u>edge</u> of the rectangle.
 - o From the Tools Panel, select the Paint Bucket Tool. → Select Close Large Gaps ⊂ as the gap size in the Options Tray. Fill the area with color.



73

le got into his hovercraft and drove to the launch pad. https://www.technokids.com/store/high-school/technoanimate/animation-for-beginners.aspx

Draw a Hover Craft and Group All the Objects Together

- ▷ Use your skills to create a vehicle that drives across the planet surface.
- ▷ From the Tools Panel, click the Selection Tool.
- \triangleright Click and drag around the hover craft.



▷ From the Modify menu, select Group.

Animate the Hover Craft Using Frame by Frame Animation

- > Drag the hover craft to its starting point on Frame 1. Put it slightly off the stage.
- Right click on Frame 2 in the Timeline.
 Select Insert Keyframe or press F6 on the keyboard.
- ▷ Click on the stage to deselect all objects.
- ▷ Click on the hover craft to select it. Make sure the terrain is not selected.
- Use the arrow keys on the keyboard to move the hover craft a little up and towards the other edge of the stage.
- Add a keyframe to Frame 3. Click on the hover craft to select it. Move it slightly down and towards the other edge of the stage.
- Continue to add keyframes and move the hover craft slightly until it is off the other side of the stage. It should look as if it is driving over the bumpy terrain.
- \triangleright Use your skills to view the animation.

Add Words on a New Layer to Describe the Action

- Click New Layer ± at the bottom of the Layers area of the Timeline. Rename the new layer Words.
- \triangleright On the Words layer, click on Frame 1.
- \triangleright Use the Text Tool \mathbf{T} to type the words:

He got into his hover craft and drove to the launch pad.



Test the Scene

- From the Control menu select Test Scene.
 Watch the hover craft fly across the planet surface.
- ▷ Click the Close button on the Test windowpane to exit the preview.

Save the Animate Document and Close the Program

PLANET NAME

Assignment 14 Frame by Frame Animation Challenge

You have learned how to animate objects using frame by frame animation. In this assignment are two animation challenges. You can add a flashing sign or a waving rock creature to Scene 3. Pick a challenge to practice your new skills.

Animate a Flashing Sign

1. Access the Animate folder. Open the Challenges folder. View the Sign file to watch a sample video.



The animated sign has letters that change color one letter at a time.

- 2. Open the space adventure in Animate 2022. View Scene 3.
- 3. Click New Layer \pm at the bottom of the Layers area. Rename the layer Sign.
- 4. Draw a sign using the drawing tools.

TIP: The landscape, hover craft, or words might be in your way. You may want to temporarily hide \aleph a layer, such as the Hover Craft or Words layer, while drawing.

- 5. Use the Text Tool ${f T}$ to add the planet name to the sign.
- 6. Right click on the text box. Select *Break Apart* to ungroup the name into individual letters.
- 7. Place a keyframe in Frame 2 of the Sign layer. Select Frame 2. From the Insert menu, select *Timeline* and then *Keyframe*, or press F6 on the keyboard.
- 8. Change the first letter to another color:
 - a. Click on the stage to deselect all objects.
 - b. Select the first letter using the Selection Tool.
 - c. Select a color from the Fill Control. \square
- 9. Place a keyframe in Frame 3 of the Sign layer.
- 10. Deselect all objects. Change the next letter to another color.
- 11. Continue to add keyframes and change the letter color until all letters have changed.
- 12. Copy the animation you have just created to have it repeat itself:
 - a. Click on the last keyframe in the Sign layer. Hold the SHIFT key and click Frame 1.
 - b. Right click on the selected frames and select Copy Frames.
 - c. Right click inside the next blank frame in the Sign layer. Select Paste Frames. Click away from the frame or timeline to see the pasted frames.
 - d. You can keep pasting the frames, by right clicking on the next blank frame and then selecting Paste Frames.

TIP: Does the sign display longer than the Hover Craft and Word layers? To solve this problem, select the frames in the Sign layer. Right click on the selection and select *Remove Frames*.



Animate a Waving Rock Creature

1. Access the Animate folder. Open the Challenges folder. View the Wave file to watch a sample video.



The waving rock creature has an arm that moves up and down to wave goodbye to the alien in the hover craft.

- 2. Open the space adventure in Animate 2022. View Scene 3.
- 3. Click New Layer \pm at the bottom of the Layers area. Rename the layer Wave.
- 4. Draw a rock creature using the drawing tools. Draw the body and add a face. Draw the arm with Object Drawing Mode ON.



TIP: The landscape, hover craft, or words might be in your way. You may want to temporarily hide \aleph a layer, such as the Hover Craft or Words layer, while drawing.

- 5. If the arm and hand are not grouped together, group them.
- 6. Place a keyframe in Frame 2 of the Wave layer. Select Frame 2. From the Insert menu, select *Timeline* and then *Keyframe*, or press F6 on the keyboard.
- 7. Move the registration point to set how the arm pivots:
 - a. Click the Free Transform Tool 江.
 - b. If necessary, click on a blank area of the stage to deselect all objects.
 - c. Click on the arm to select it. Click on the registration point it is the round circle inside the bounding box.
 - d. Drag it to the point where you want the arm to pivot (at the body).





Move the registration point to the body. This will create realistic movement.

- 8. Rotate the arm slightly (up or down).
- 9. Place a keyframe in Frame 3.
- 10. <u>Deselect all objects</u>. Rotate the arm (in the same direction as step 8).
- 11. Continue to add keyframes until the arm has moved all the way up or down.
- 12. Copy the animation you have just created to have it repeat itself:
 - a. Click on the last keyframe in the Wave layer. Hold the SHIFT key and click Frame 1.
 - b. Right click on the selected frames and select Copy Frames.
 - c. Right click inside the next blank frame in the Wave layer. Select Paste Frames. Click away from the frame or timeline to see the pasted frames.
 - d. You can keep pasting the frames, by right clicking on the next blank frame and then selecting *Paste Frames*.

TIP: Does the rock display longer than the Hover Craft and Word layers? To solve this problem, select the frames in the Wave layer. Right click on the selection and select *Remove Frames*.

Save the Animate Document and Close the Program

Session 2 Review: About Frame by Frame Animation

Match the tool to its function.

1.	D	Ø	Α.	Display objects on a layer as solid or an outline.	
2.	А		В.	Add a layer.	
3.	E	A	C.	Select a scene to edit.	
4.	С	Scene 1 🗸	D.	Show or hide a layer.	
5.	В	+	E.	Lock or unlock a layer.	
Mate	h the	term to its definition			/5
6.	В	frame by frame animation	Α.	A gallery of stored objects	
7.	С	scene	Β.	Animation that has a keyframe in every frame	
8.	Ε	Timeline	C.	A part of an Animate document that contains its own stage, Timeline, and layers	
9.	D	keyframe	D.	A frame in an animated sequence that contains drawn objects	
10.	А	Library	E.	Made up of layers and frames, it organizes and controls a document's content over time	
11.	F	frame	F.	A single unit in a Timeline	
12.	G	layer	G.	A division of the Timeline into parts that allow objects to be stacked on top of each other	
\ \ /rita	o ch	ort answer for each question			/7
12	a si li Wh	on answer for each question.	Ovfr	ame and a blank keyframo?	
13.	A b fran	lank keyframe is empty, wherea nes.	as a	keyframe copies the content of the previous	

14.	What keyboard key will add a keyframe to th	F6	
15.	What keyboard key will play the Timeline?	ENTER	

/3 TOTAL: /15

Session 2 Skill Review: Animate a Dog's Tail Wagging

Frame by frame animation can be used to animate objects one frame at a time using keyframes. In this assignment, you apply your knowledge to create a dog with a wagging tail.

1. View the Tail file to watch a sample video. Ask your teacher for the file.



The tail wags up and down using frame by frame animation.

- 2. Open Animate. From the File menu select New.
 - a. Select Education. Pick Standard Video.
 - b. Select ActionScript 3.0 as the Platform Type.
- 3. Rename Layer_1 to Dog.
- 4. Draw a creature using the drawing tools. DO NOT INCLUDE A TAIL.
- 5. Group the creature:
 - a. Select the Selection Tool. Click and drag to draw a box around the dog.
 - b. From the Modify menu, click Group.
- 6. Position the dog on the stage.
- 7. Draw a tail. If the parts of the tail are not grouped, group them.
- 8. Position the tail so it looks like it is attached to the creature. If necessary, change the object order. Right click the tail. Select *Arrange*. Click *Send to Back*.
- 9. Place a keyframe in Frame 2 of the Dog layer.
- 10. Move the registration point to set how the tail pivots:
 - a. Click the Free Transform Tool. 🎦
 - b. If necessary, click on a blank area of the stage to deselect all objects.
 - c. Click on the tail to select it. Click on the registration point it is the round circle inside the bounding box.
 - d. Drag it to the point where the tail should pivot. (at the body)
 - e. Rotate the tail a small amount to look like it is wagging.
- 11. Animate the tail:
 - a. Click the Free Transform Tool. 🕅
 - b. If necessary, click on a blank area of the stage to deselect all objects.
 - c. Place a keyframe in Frame 3.
 - d. <u>Deselect all objects</u>. Rotate the tail a bit more.
 - e. Continue to add keyframes until the tail has moved in one direction.
- 12. Copy the animation you have just created to have it repeat itself:
 - a. Click on the last keyframe in the Dog layer. Hold the SHIFT key and click Frame 1.
 - b. Right click on the selected frames and select Copy Frames.
 - c. Right click inside the next blank frame in the Dog layer. Select Paste Frames.
 - d. Keep pasting frames. Right click on the next blank frame and select Paste Frames.
- 13. View the animation. IF you find the tail moves too fast, adjust the frames per second. Click on the stage. In the Properties panel, on the Docs tab, edit FPS. Change to 12 FPS.

78

14. Save the file as tail. Close the Animate Program.





Session 2 Extension Activity: Using Layers

In this extension activity, you will explore the Layers area. Learn how to insert, rename, move, hide, lock, view, and delete layers.

What Is a Layer?

The Layers panel is part of the Timeline. A layer is a row in a Timeline. It is used to organize parts of a scene. By placing objects on different layers, it is possible to have several animations appear at the same time.

Layers are used to:

- organize a scene into manageable parts
- adjust the stacking order of objects on the stage
- display objects as outlines
- temporarily hide objects to declutter the stage
- structure animated sequences
- navigate to a keyframe quickly
- add a camera view
- create depth on the stage

About the Layers Panel

The layer area of the Timeline has tools for managing layers. Read to learn about each part:

View Only Active Layer: Temporarily hide inactive layers.

- Add Camera: Add a camera layer to pan and zoom the stage.
- Show Parenting View: Connect layers or objects to control movement.
- Invoke Layer Depth Panel: Create depth on the stage.
- + New Layer: Insert a new layer on the Timeline.
 - New Folder: Create a folder to group layers.
- Delete: Remove a layer from the Timeline.
- Highlight Layers: Color code layers to easily identify each row.
- Show Layer as Outline: Display objects as solid or black and white line drawings.
- & Show or Hide Layers: Display or temporarily remove a layer from view.
- Lock or Unlock Layers: Permit or prevent edits to a layer.
- 1. Create a new file in Animate.
- 2. Rename a layer:
 - a. Double click on Layer _1.
 - b. Type Circle. Press the ENTER key.





- 3. Add an object to a layer:
 - a. From the Tools Panel, select the Oval Tool. igodot
 - b. From the Properties panel, set the color and style.
 - c. Draw a circle.
- 4. Insert a new layer to organize objects:
 - a. Add a layer by clicking New Layer. 🛨
 - b. Double click on Layer _2.
 - c. Type Square. Press the ENTER key.
 - d. From the Tools Panel, select the Rectangle Tool.
 - e. Use your skills to place the rectangle directly over top of the circle.
- 5. Adjust the stacking order of objects:
 - a. Click on the Square layer to select it. It turns blue to show it is active.
 - b. Drag it down below the Circle layer.
- 6. Hide or show a layer:
 - a. Click on the Circle layer.
 - b. Hide it from view by clicking on Show or Hide Layer \aleph .

+ 🖻 🕅	• 🛛 🗞 🔒
🕤 Circle	• •
Square	

- c. Click \bigotimes to show the layer again.
- 7. Lock and unlock a layer:
 - a. Click on the Circle layer.
 - b. Lock it so that no changes can be made, by clicking on the Lock or Unlock Layer dot. Now try to draw something on the layer you cannot!

🗄 🖿 🕅	•	Ø []	ô
🕤 Circle	•	8	â
Square			

- c. Click the lock symbol $\widehat{\mathbf{n}}$ to unlock the layer.
- 8. Change the view of a layer from an outline to solid:
 - a. Click on the Circle layer.
 - b. Change the objects on each layer to an outline of the shape by clicking on the Show Layer as Outlines I square in the layer.

± 🖿 🕅	• [& A
G Circle	• 🚺 🗞 🔒
Square	

- c. Click it again \mathbf{I} to return it to a solid.
- 9. Delete a layer:
 - a. Click on the Square layer.
 - b. Click Delete $\mathbf{\overline{W}}$ to remove it.

This is a preview of the teacher guide. Pages have been omitted.

TECHNOKids

TechnoAnimate Checklist

	√
Content	
The events in the movie are logically sequenced.	
The action is told using well drawn characters or objects.	
The words explain the action in the story and are easy to read.	
The words are spelled correctly.	
Animation	
The animation clearly illustrates the action in the story.	
The animation is well-selected for the purpose.	
There is a variety of animation to add interest to the story.	
There is enough time to read the words.	
There is enough time to view the action.	
Sound	
The sound enhances the story.	
The sound is synchronized with the action.	
Originality and Creativity	
The movie holds viewer interest.	
The content of the movie is unique.	

This is a preview of the teacher guide. Pages have been omitted.

TECHNOKids



Session 8 Review

Review the learning objectives addressed in the TechnoAnimate project.

- ➢ Reflection
- Skill Summary
- > Animate Marking Sheet
- > Animate Rubric

This is a preview of the teacher guide. Pages have been omitted.

TECHNOKids

Animate Marking Sheet

Content			
The events in the movie are logically sequenced.			
The action is told using well drawn characters or objects.			
The words explain the action in the story and are easy to read.			
The words are spelled correctly.			
Animation			
The animation clearly illustrates the action in the story.			
The animation is well-selected for the purpose.			
There is a variety of animation to add interest to the story.			
There is enough time to read the words.			
There is enough time to view the action.	/10		
Sound			
The sound enhances the story.			
The sound is synchronized with the action.	/5		
Originality and Creativity			
The movie holds viewer interest.			
The content of the movie is unique.	/5		
TOTAL:	/30		

	Excellent - Wow!	Competent - Great Work!	Emerging - Getting There!	Incomplete - Keep Trying!
Story Content	 tells a story convincingly with all elements: characters, objects, text, and background 	 tells a story accurately with most elements: characters, objects, text, and background 	 tells a story with some elements: characters, objects, text, and background 	• tells a story with few elements: characters, objects, text, and background but plot is missing key parts
Drawing Skills	 demonstrates an exceptional understanding of drawing tools 	 demonstrates a strong understanding of drawing tools 	 demonstrates a basic understanding of drawing tools 	 demonstrates an incomplete understanding of drawing tools
Animation	 illustrates the story action highly effectively using a variety of animation types (frame by frame, motion tween, shape tween, and/or motion path) flows smoothly and action is well- paced 	 illustrates the story action accurately using a variety of animation types (frame by frame, motion tween, shape tween, and/or motion path) flows smoothly 	 illustrates the story action using limited animation types (frame by frame, motion tween, shape tween, and/or motion path) plays with some pauses or breaks 	 illustrates the story action using minimal animation types (frame by frame, motion tween, shape tween, and/or motion path) plays in a disjointed way
	 uses calculated and accurate timing to read words and view the action 	 uses appropriate timing to read words and view the action 	 uses some suitable timing to read words and view the action 	 uses inadequate or prolonged timing to read words and view the action
Organization	sequences all events logically	 sequences most events logically 	 sequences some events logically 	 sequences events in a confusing order
	labels all scenes and layers clearly	 labels most scenes and layers 	 labels some scenes and layers 	 labels few or no scenes and layers
	 stores all graphic elements in a Library 	 stores most graphic elements in a Library 	 stores some graphic elements in a Library 	 stores few or no graphic elements in a Library
Sound	• fits the story line and mood very effectively	fits the story line and mood	• fits the story line somewhat	does not fit the story line
	 synchronizes precisely with the action 	• synchronizes with the action	 matches the action moderately 	 does not match the action
Originality and Creativity	 applies a very unique approach that enhances the project and thoroughly engages the viewer 	 applies a thoughtful approach to engage the viewer 	applies some original touches	• applies few or no unique ideas