



# Google Drawings

## 9-12 Student Companion Lessons

### What

Learn how to use the features of Google Drawings to create amazing content.

### Why

Google Drawings is an online tool for creating diagrams, flowcharts, headers, interactive activities and images. Drawings allows you to create and edit pictures by using shapes, text boxes, lines, arrows, tables, other images, and more.

Drawings are the perfect companion tool for all in classroom activities. Here is a small sampling of things students can create with Drawings:

- Graphic organizers
- Infographics
- Sketch Notes
- Posters and other print media
- Study guides
- Map activities
- Comics
- Elements to be used in presentations
- Elements to be used in social media

Google Drawings are inherently collaborative and portable and can be used in a variety of ways and places. Students need to learn the creative design tools that are part of using and creating in Google Drawings.

**ISTE Standard for Students: Empowered Learner 1.1.c** - Use technology to seek feedback that informs and improves their practice and to demonstrate their learning in a variety of ways.

**ISTE Standard for Students: Empowered Learner 1.1.d** - Understand the fundamental concepts of technology operations, demonstrate the ability to choose, use and troubleshoot current technologies and are able to transfer their knowledge to explore emerging technologies.

**ISTE Standard for Students: Digital Citizen 1.2.c** - Demonstrate an understanding of and respect for the rights and obligations of using and sharing intellectual property.

**ISTE Standards for Students: Knowledge Constructor 1.3.c** - Curate information from digital resources using a variety of tools and methods to create collections of artifacts that demonstrate meaningful connections or conclusions.

**ISTE Standards for Students: Creative Communicator 1.6.a** - Choose the appropriate platforms and tools for meeting the desired objectives of their creation or communication.

**ISTE Standards for Students: Creative Communicator 1.6.b** - Create original works or responsibly repurpose or remix digital resources into new creations.

**ISTE Standards for Students: Creative Communicator 1.6.c** - Communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models or simulations.

**ISTE Standards for Students: Creative Communicator 1.6.d** - Publish or present content that customizes the message and medium for their intended audiences.

**ISTE Standards for Students: Global Collaborator 1.7.b** - Use collaborative technologies to work with others, including peers, experts or community members, to examine issues and problems from multiple viewpoints.

**ISTE Standards for Students: Global Collaborator 1.7.c** - Contribute constructively to projects teams, assuming various roles and responsibilities to work effectively toward a common goal.

## Ohio Technology Standards: Information and Communications Technology

- **9-12.ICT.1.a:** Develop strategies for using digital learning tools and resources to plan, implement and reflect upon a complex task.
- **9-12.ICT.1.c:** Analyze and evaluate the ease of use and effectiveness of available features of selected digital learning tools and resources.
- **9-12.ICT.2.d:** Apply principles of copyright, use digital citation tools and use strategies to avoid plagiarism when using work of others as well as creating personal work
- **9-12.ICT.3.a:** Synthesize textual, visual and quantitative research and data (e.g., images, diagrams, maps, graphs, infographics, videos, animations, interactives) from a variety of digital learning tools and resources.
- **9-12.ICT.3.c:** Create artifacts using digital learning tools and resources to demonstrate knowledge.
- **9-12.ICT.4.a:** Use digital learning tools and resources to identify communication needs considering goals, audience, content, access to tools or devices, timing of communication, etc.
- **9-12.ICT.4.c:** Integrate accessibility principles to effectively communicate to, and meet the needs of, multiple audiences.
- **9-12.ICT.4.d:** Use digital learning tools to represent and model complex systems of information to a target audience.
- **9-12.ST.2.a:** Demonstrate and advocate effective collaboration strategies and techniques using technology.
- **9-12.ST.2.b:** Describe and demonstrate professionalism and civility in communications and collaborative environments.

## How

Topic	Tech Skills Taught	Lesson Specifics
<p>Create a Mind Map in Google Drawings</p> <p>Build a mind map to reflect on a recent local, national, or global event using Google Drawings.</p> <p>Approximate lesson time: 45-90 minutes</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Typing text in a document</li> <li><input type="checkbox"/> Highlighting text</li> <li><input type="checkbox"/> Creating a new drawing and renaming it</li> <li><input type="checkbox"/> Sharing a document and/or drawing (if collaborating or asking for feedback)</li> <li><input type="checkbox"/> Change the page setup</li> <li><input type="checkbox"/> Copy and paste shapes</li> <li><input type="checkbox"/> Reposition shapes</li> <li><input type="checkbox"/> Type text in a drawing</li> <li><input type="checkbox"/> Format text in a drawing</li> <li><input type="checkbox"/> Align text in a drawing</li> <li><input type="checkbox"/> Add lines to a drawing</li> <li><input type="checkbox"/> Add colors to the interior and/or borders of shapes</li> <li><input type="checkbox"/> Change line and text color</li> <li><input type="checkbox"/> Add background color</li> <li><input type="checkbox"/> Search for images</li> <li><input type="checkbox"/> Upload photos</li> <li><input type="checkbox"/> Place images on the canvas</li> <li><input type="checkbox"/> Add GIFS</li> <li><input type="checkbox"/> Add Word Art</li> <li><input type="checkbox"/> Download drawing as a JPEG</li> <li><input type="checkbox"/> Upload the file into a presentation</li> </ul>	<p><a href="#">Can be found here in Google Applied Digital Skills</a></p> <p><a href="#">Lesson Plan for this activity</a></p> <p>Extension Options:</p> <ul style="list-style-type: none"> <li>→ Download your mind map as a PDF and email it</li> <li>→ Write a short description of your mind map</li> <li>→ Add an inspirational quotation to your mind map.</li> </ul>

<p><b>Draw a Scientific Diagram</b> Students learn how to create a scientific diagram using Google Drawings.</p> <p>Approximate lesson time: 45-90 minutes</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Create and title a new drawing</li> <li><input type="checkbox"/> Use simple shapes to draw a diagram</li> <li><input type="checkbox"/> Draw the parts to scale</li> <li><input type="checkbox"/> Make the background transparent</li> <li><input type="checkbox"/> Make the borders of some parts thicker for emphasis</li> <li><input type="checkbox"/> Label the important parts</li> <li><input type="checkbox"/> Format the text</li> <li><input type="checkbox"/> Add a note as a scale reference</li> </ul>	<p><a href="#">Can be found here in Google Applied Digital Skills</a></p> <p><a href="#">Lesson Plan for this activity</a></p> <p>Extension Options:</p> <ul style="list-style-type: none"> <li>→ Color-code your diagram</li> <li>→ Write a short description of your diagram</li> <li>→ Insert your diagram into a presentation</li> </ul>
<p><b>Make a Flowchart</b> Explain a process or decision visually by creating a flowchart in Google Drawings</p> <p>Approximate lesson time: 45-90 minutes</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Create and title a Google Drawing</li> <li><input type="checkbox"/> Insert a text box and format text</li> <li><input type="checkbox"/> Insert and format flowchart shapes</li> <li><input type="checkbox"/> Insert and format connectors</li> <li><input type="checkbox"/> Change the background</li> <li><input type="checkbox"/> Delete a text box</li> </ul>	<p><a href="#">Can be found here in Google Applied Digital Skills</a></p> <p><a href="#">Lesson Plan for this activity</a></p> <p>Extension Options:</p> <ul style="list-style-type: none"> <li>→ Color-code and format the flowchart</li> <li>→ Download the flowchart as an image file</li> <li>→ Share the flowchart for feedback</li> </ul>
<p><b>Create a Meme with Google Drawings</b> Create a meme to illustrate a concept you have learned.</p> <p>Approximate lesson time: 45-90 minutes</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Create and title a new project in Google Drawings</li> <li><input type="checkbox"/> Resize a canvas</li> <li><input type="checkbox"/> Find, add and resize images</li> <li><input type="checkbox"/> Add a background to a canvas</li> <li><input type="checkbox"/> Add and format Word Art</li> </ul>	<p><a href="#">Can be found here in Google Applied Digital Skills</a></p> <p><a href="#">Lesson Plan for this activity</a></p> <p>Extension Options:</p> <ul style="list-style-type: none"> <li>→ Use a GIF in a meme</li> <li>→ Create a meme about your life</li> <li>→ Respond to a story with a meme</li> </ul>
<p><b>Memorize Facts with a Visual Mnemonic</b> Commit facts to memory by creating a visual mnemonic in Google Drawings</p> <p>Approximate lesson time: 45-90 minutes</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Create and title a new drawing</li> <li><input type="checkbox"/> Search for and insert an image</li> <li><input type="checkbox"/> Resize and move an image</li> <li><input type="checkbox"/> Duplicate and change the orientation of the images</li> <li><input type="checkbox"/> Select a background color</li> <li><input type="checkbox"/> Add shapes, lines, and/or text and format them</li> <li><input type="checkbox"/> Add and resolve comments</li> </ul>	<p><a href="#">Can be found here in Google Applied Digital Skills</a></p> <p><a href="#">Lesson Plan for this activity</a></p> <p>Extension Options:</p> <ul style="list-style-type: none"> <li>→ Write a rhyme mnemonic</li> <li>→ Share the mnemonic drawing</li> <li>→ Create a study aid with Google Slides</li> </ul>

<p>Create a Comic Strip in Google Drawings</p> <p>Learn how to plan for and create a comic strip about a story or series of events</p> <p>Approximate lesson time: 45-90 minutes</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Open and name a Google Drawing</li> <li><input type="checkbox"/> Insert a table in a drawing</li> <li><input type="checkbox"/> Format the borders of a table</li> <li><input type="checkbox"/> Insert elements (shapes, lines, callouts, etc.) in a drawing</li> <li><input type="checkbox"/> Resize elements in a drawing</li> <li><input type="checkbox"/> Format the elements in a drawing</li> <li><input type="checkbox"/> Add text to a drawing</li> </ul>	<p><a href="#">Can be found here in Google Applied Digital Skills</a></p> <p><a href="#">Lesson Plan for this activity</a></p> <p>Extension Options:</p> <ul style="list-style-type: none"> <li>→ Add color to the comic strip</li> <li>→ Caption the comic strip</li> <li>→ Use Word Art</li> </ul>
<p>Make Pop Art in Google Drawings</p> <p>Use pop art techniques to transform a photo in Google Drawings.</p> <p>Approximate lesson time: 45-90 minutes</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Crop a photograph</li> <li><input type="checkbox"/> Outline shapes using the line tool</li> <li><input type="checkbox"/> Format shapes</li> <li><input type="checkbox"/> Change fill color to transparent</li> <li><input type="checkbox"/> Add new fill colors</li> <li><input type="checkbox"/> Format border weight</li> <li><input type="checkbox"/> Change the background color</li> <li><input type="checkbox"/> Experiment with gradient color</li> </ul>	<p><a href="#">Can be found here in Google Applied Digital Skills</a></p> <p><a href="#">Lesson Plan for this activity</a></p> <p>Extension Options:</p> <ul style="list-style-type: none"> <li>→ Use repetition in your pop art</li> <li>→ Add word art to your pop art</li> <li>→ Format your photo make photo art</li> </ul>
<p>Design an Infographic with Google Drawings</p> <p>Summarize and communicate information visually by creating an infographic in Google Drawings.</p> <p>Approximate lesson time: 45-90 minutes</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Open and name a new drawing in Google Drawings</li> <li><input type="checkbox"/> Search for sources of information online</li> <li><input type="checkbox"/> Adjust formatting of text and images in Google Drawings</li> <li><input type="checkbox"/> Add and edit images in Google Drawings</li> </ul>	<p><a href="#">Can be found here in Google Applied Digital Skills</a></p> <p><a href="#">Lesson Plan for this activity</a></p> <p>Extension Options</p> <ul style="list-style-type: none"> <li>→ Add shapes and lines</li> <li>→ Add word art</li> <li>→ Download your infographic as a file</li> <li>→ Use icons to represent a number or statistics</li> <li>→ Add a custom background gradient</li> <li>→ Group objects to edit multiple objects at once</li> </ul>
<p>Develop a Model in Google Drawings</p> <p>Use data from a spreadsheet to develop a science model in Google Drawings.</p> <p>Approximate lesson time: 45-90 minutes</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Format a Google Drawing</li> <li><input type="checkbox"/> Calculate data using a formula</li> <li><input type="checkbox"/> Add images to a drawing</li> <li><input type="checkbox"/> Resize images using a scale</li> <li><input type="checkbox"/> Add and format a text box and text in drawing</li> </ul>	<p><a href="#">Can be found here in Google Applied Digital Skills</a></p> <p><a href="#">Lesson Plan for this activity</a></p> <p>Extension Options:</p> <ul style="list-style-type: none"> <li>→ Share your model for feedback</li> <li>→ Add a word art title to your model</li> <li>→ Turn your images into clickable links</li> </ul>

