



## Fueling the Mind, Feeding the World:

### **DM07- Thinking Abstractly about Problems**

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For additional information, visit the Texas A&M University Science Communications Lab at <https://scicomm.tamu.edu/>.

### **Module Content & Instructions**

This module provides students with an overview of how to think abstractly about problems. Two formats are available: online SCORM/HTML (DM07\_OnlineModule.zip) and face-to-face instruction (DM07\_F2FCurriculum.zip).

Modules are best used as a lesson in your course but can also be used as a supplemental activity or lecture. You may use as much or as little of the content as desired. Further, the module curriculum contains a file entitled “Instructor’s Food for Thought” that provides background information on the topic as well as suggested videos, connections to other topics, sample teaching plans, and a list of the National FFA strands and standards that connect to the module.

Online modules include worksheet assignments, handouts, videos, and audio clips to provide your learners with an immersive and complete learning experience.

Instructor-led modules include PowerPoint slides, handouts, assignments, answer keys, and additional teacher guides.

#### **Learning Outcomes:**

By the end of this module, students should be able to:

1. Describe terms related to abstract thinking.
2. Use tools such as Venn diagrams to illustrate similarities and differences between topics.



## **Module Contents**

*The following items are included:*

1. Module Contents & Instructions (.pdf)
2. OnlineModule (.zip)
  - SCORM file package
  - HTML package
3. F2FCurriculum (.zip)
  - Written Curriculum
  - PowerPoint
  - Handouts folder
  - Activities folder
  - Answer-Keys folder

### **Instructions for Face-to-Face Curriculum Use**

1. Download and unzip the file package named “F2FCurriculum”.
2. Select the folder for desired file type: MSWord\_Files or PDF\_Files
3. Open the file titled “Instructor-Food-for-Thought” and read the overview of the module.
4. Open the file titled “Written-Curriculum” and review the content. This is the same content that is shared in the packaged module for online module use.
5. Open the file titled “PowerPoint-Slides” and review the slides and text provided in the notes section.

### **Instructions for Online Module Use**

*If you have questions about uploading this module,  
contact your learning management system helpdesk for support.*

1. Before uploading this module for your course(s), you must choose which activities your learners should complete and submit. Be sure to share this information with your learners as the module will instruct learners to “follow your teacher’s instructions.”
2. Download and unzip the file package named “OnlineModule”. You will see two zipped folders: SCORM and HTML. Follow the guidance of your IT helpdesk or learning management system support to upload one of these file packages.



## Online Learning Modules:

### Helpful Information to use the Learning Modules

When using Rise 360 learning modules, you have two common formats: **SCORM** and **HTML**. Here's how to decide which one to use:

#### 1. *SCORM Format (Sharable Content Object Reference Model):*

- **Best for Learning Management Systems (LMS)**
- Tracks student progress, grades, and completion within the LMS.
- Allows interactive content to be automatically graded by the LMS.
- Compatible with major LMS platforms like Canvas, D2L Brightspace, Blackboard, Schoology, and others.
- Use this format if you need to track how your students interact with the module (e.g., quizzes, completion status).

#### 2. *HTML Format:*

- Best for **web hosting or platforms that don't support SCORM**.
- Simple to use and can be uploaded directly to a web server or shared via a URL.
- Does **not track** student progress or grades.
- Use this format if you only need to provide content for students to view without tracking or grading.

### How to Add SCORM Files to Your LMS

Here's how to upload SCORM files (zip format) to different LMS platforms:

#### 1. *Canvas:*

- Go to your course.
- Click on **Modules**.
- Click the + button to add a new item.
- Choose **External Tool** from the dropdown menu.
- Select **SCORM**.
- Upload the SCORM zip file.
- Configure it as graded or not, then publish it.

#### 2. *D2L Brightspace:*

- Go to your course.
- Click **Content** from the navigation bar.
- Click **New** and select **SCORM/xAPI Package**.
- Upload the SCORM zip file.
- Configure the settings for grading and tracking, then save and publish.

#### 3. *Blackboard:*

- Go to your course.
- Click **Content**.
- Select **SCORM Content**.
- Browse your computer to upload the SCORM zip file.
- Configure grading options and tracking.
- Click **Submit** to publish.



#### 4. Schoology:

- Go to your course.
- Click on **Add Materials**.
- Select **Import SCORM/External Tool**.
- Upload the SCORM zip file.
- Choose the grading options and complete the process.

#### 5. Google Classroom (via a workaround):

- Google Classroom doesn't natively support SCORM.
- Use a SCORM-compatible tool like **SCORM Cloud** to host the file and generate a link.
- Share the link in **Google Classroom** for students to access the SCORM module.
- You may consider using the HTML version instead.

### How to Use HTML Version of the Module

If you choose to use the HTML version, follow these steps:

#### 1. Upload to Web Hosting Service:

- Extract the zip file.
- Upload the folder to a web server or hosting service like **Google Drive (Public Folder)**, **Dropbox**, or a personal web hosting account.
- Share the **index.html** link with your students.

#### 2. Sharing via LMS:

- **Canvas/D2L/Blackboard/Schoology/Google Classroom:**
  - Upload the **index.html** file as part of your course content or provide the link to the HTML version.
  - This won't track progress, but students can easily view the content.

### SCORM vs. HTML Summary

- Use **SCORM** for tracking and grading student performance.
- Use **HTML** for simple content sharing without tracking.

### Additional Note: What If Your LMS Isn't Listed?

If your Learning Management System (LMS) isn't listed in the guide above, here's what to do:

- **Contact your LMS Administrator:** Reach out to the person or department in charge of your institution's LMS. They can provide guidance on whether your LMS supports SCORM and how to upload SCORM packages.
- **Check the LMS Help or Support Section:** Many LMS platforms have support guides or help documentation online that explain how to use SCORM packages.
- **Contact LMS Customer Service:** If you're unsure about SCORM compatibility or how to use SCORM with your LMS, contact the LMS customer support team. They can inform you if SCORM is supported and provide instructions for uploading your SCORM file.

If your LMS does not support SCORM, you may still be able to use the HTML version as an alternative to share your Rise 360 content.



# Using Assignments with Google Docs:

## Help Sheet

### Step 1: Prepare Your Microsoft Word Document

1. **Open** your Microsoft Word document and review it to ensure everything is formatted correctly.
2. **Save** the document in a compatible format (e.g., .docx). If your document is in an older format (.doc), it's advisable to save it as .docx first by choosing "File" > "Save As" and selecting .docx from the file format options.

### Step 2: Upload the Word Document to Google Drive

1. **Go to Google Drive:** Open your web browser and navigate to [Google Drive](#).
2. **Sign in** to your Google account if you aren't already logged in.
3. **Upload the Document:**
  - o Click on the **" + New "** button on the left side of the screen.
  - o Select **"File upload"** from the dropdown menu.
  - o Navigate to where your Word document is saved on your computer, select it, and click **"Open"**.
  - o The document will begin uploading to your Google Drive.

### Step 3: Open and Convert the Word Document in Google Docs

1. Once the upload is complete, **locate the uploaded file** in your Google Drive. It will usually appear in the "My Drive" section.
2. **Right-click** on the uploaded Word document.
3. Select **"Open with"** and then choose **"Google Docs"**. Google Docs will automatically open the document and convert it to a Google Docs format.
  - o The document will retain most of the formatting, but it's a good idea to review it to ensure everything appears as intended.

### Step 4: Save the Converted Document as a Google Doc

1. **Check the Document:** Review the document in Google Docs for any formatting issues that might have occurred during the conversion.
2. **Rename the Document:** If you want to change the document name, click on the name at the top of the Google Docs screen and type in the new name.
3. **Save as Google Doc:** The document is now automatically saved as a Google Doc in your Google Drive. You can now share, edit, and collaborate on it as needed.

### Optional: Download the Document Back to Word Format

- If you need to download the document as a Word file after editing it in Google Docs, click on **"File" > "Download" > "Microsoft Word (.docx)"**.