



UNIT 30: GOOGLE SHEETS INTERFACE LESSON 6: FORMULA BAR

LESSON OVERVIEW

The Formula Bar is located at the top of your sheet under the Toolbar.

Time: ~30 minutes

OBJECTIVE

Student is able to navigate the interface of Google Sheets.

PRINT PREPARATION

- 1. Print this lesson's Dollar Tracker.
- 2. Review sequence of activities in lesson.
- 3. Learn which supplements you will use.
- 4. Print/Copy/Laminate materials that fit your student's needs.
- 5. Refer to your Level 2 Guide to read about effective practices.

ONLINE REVIEW

- 1. Sign into Digitability
- 2. Click LESSONS tab
- 3. Select Level 3 Tech-savvy Ambassador
- 4. Select Unit 30
- 5. Select Lesson 6 Formula Bar

WORKPLACE BEHAVIOR FOCUS FOR THIS UNIT

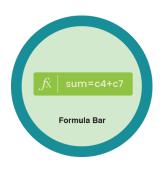


Using the Dollar Tracker, select two additional behaviors that you will target throughout the course of this unit. Always include participation/contribution in addition to the two new behaviors.









LESSON PLAN

WARM UP



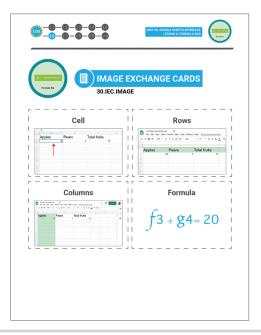
- 1. Write the following on the board, leaving a blank space for the words "cell," "column," and "row."
 - a. The name of a _____ depends on what _____ and ___ intersect

2. Have a student come up to the board to fill in the correct answer.

Repeat the process to ensure all students get a chance to participate and earn a participation dollar.



3. Distribute **30.IMAGE.IEC** to students. See DIFFERENTIATION for this activity to identify supplements needed for your students.







DIFFERENTIATION

- Writes response on board
- Writes response on board with assistance from a Tier 1 partner or writes answer in notebook
- Writes response on board with assistance from an adult or points to Image Exchange Cards [30.IMAGE.IEC]

Pro tip: Remember Rule #3 Avoid a power struggle to stay focused on instruction. We are helping students learn to self-regulate. Therefore, it is important to give students time to opt in or identify their replacement behavior. If a student is not following directions, give them one minute before taking additional dollars.



4. Give immediate feedback to each student (see below). Record Workplace Behavior earnings and/or spending on the **Dollar Earnings** Tracker. [30.6.DollarTracker]

Off-task

Interrupting **UMAPA Arguing**

[NAME] + [BEHAVIOR] + [CONSEQUENCE] + [REPLACEMENT BEHAVIOR/REINFORCEMENT]

SUCCESSFUL

"Nice job [Behavior], Marcus. You earned a [Behavior] dollar."

PROBLEMATIC

"Marcus, you [Behavior]. [Behavior]s cost \$1. Next time, [Replacement Behavior] to earn a \$1."

Off-topic/Inappropriate Comment Disrespect/Teasing Complaining/Whining

Participation/Contribution Sharing/Helping Greeting a Guest Following Directions/Staying on Task **Encouraging**

GUIDED WATCHING



Call out earnings to the class, "[Student] has earned x dollars for participating. [Student] has earned x dollars for participating and sharing. [Student] has earned x dollars..."



□-0-0-0-0 -0-0-0-0-0

Pro tip: Build confidence in your students Identify students who have not earned money and focus on engaging them. Use differentiation tools if reluctant to participate i.e. have them point to or write down their answers. EVERY student should be earning money.







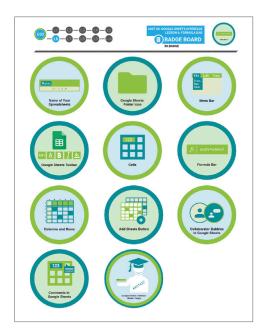


1. Ask, "For a participation dollar, who can tell me the name of our next badge?"

Answer: Formula Bar



2. Distribute **30.BADGE** to students. See DIFFERENTIATION for this activity to identify supplements needed for your students.



B

- On-topic shared verbal response
- T2 Writes down badge name or walks up to point to badge
- Uses Badge Board [30.BADGE] for this unit







3. Give immediate feedback to each student (see below). Record Workplace Behavior earnings and/or spending on the **Dollar Earnings Tracker.** [30.6.DollarTracker]

[NAME] + [BEHAVIOR] + [CONSEQUENCE] + [REPLACEMENT BEHAVIOR/REINFORCEMENT]

+\$ SUCCESSFUL

"Nice job [Behavior], Marcus. You earned a [Behavior] dollar."

-\$ PROBLEMATIC

"Marcus, you [Behavior]. [Behavior]s cost \$1. Next time, [Replacement Behavior] to earn a \$1."

Participation/Contribution Sharing/Helping Greeting a Guest Following Directions/Staying on Task Encouraging Off-task
Off-topic/Inappropriate Comment
Disrespect/Teasing
Complaining/Whining
Interrupting
UMAPA
Arguing



- 4. Bring attention to screen, "Let's watch this lesson. I know that [student's name] is actively watching because he has his eyes on the screen, and he is actively listening by giving a thumbs up when he hears the phrase "Formula Bar."
- 5. Ask students to give a thumbs up every time they hear and/or see the phrase "Formula Bar" in the video.



6. Play video.

Pro tip: Remember Rule
#3 Avoid a power struggle to
stay focused on instruction.
We are helping students learn
to self-regulate. Therefore, it
is important to give students
time to opt in or identify
their replacement behavior.
If a student is not following
directions, give them one minute
before taking additional dollars.

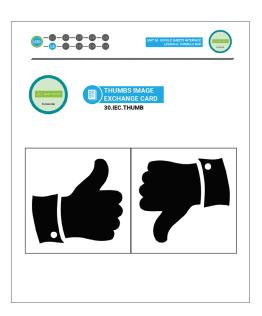








7. Distribute **30.IEC.THUMB** to students. See DIFFERENTIATION for this activity to identify supplements needed for your students.



- Puts thumbs up
- Uses Thumbs Image Exchange Card [30.IEC.THUMB]
- Uses **Thumbs Image Exchange Card** [30.IEC.THUMB]





8. Give immediate feedback to each student (see below). Record Workplace Behavior earnings and/or spending on the **Dollar Earnings Tracker.** [30.6.DollarTracker]

[NAME] + [BEHAVIOR] + [CONSEQUENCE] + [REPLACEMENT BEHAVIOR/REINFORCEMENT]



SUCCESSFUL

"Nice job [Behavior], Marcus. You earned a [Behavior] dollar."

-\$ PROBLEMATIC

"Marcus, you [Behavior]. [Behavior]s cost \$1. Next time, [Replacement Behavior] to earn a \$1."

Participation/Contribution
Sharing/Helping
Greeting a Guest
Following Directions/Staying on Task
Encouraging

Off-task
Off-topic/Inappropriate Comment
Disrespect/Teasing
Complaining/Whining
Interrupting
UMAPA
Arguing

INFORMAL ASSESSMENT



1. Ask, "For a participation dollar, who can tell me what the Formula Bar shows you?"

Possible Answers: what formula you have in a cell.

Write the term and definition on the board after student responses.

2. Ask, "For a participation dollar, what will happen if you do not have a formula in a cell?"

Possible Answers: there will be NO formula in the Formula Bar

3. Ask, "For a participation dollar, where is the Formula Bar located in Google Sheets?"

Possible Answers: at the top of your sheet under the Toolbar

Pro tip: Use content domain to develop expressive communication If a student gives a one-word answer or a fragment, require a complete sentence before awarding the \$1. Then, use positive narration to reinforce the student's expressive communication:

"I love how you used a complete sentence for your answer. Nice job earning a dollar!"

"Yes, nice job participating, [student]! You earned a participation dollar."

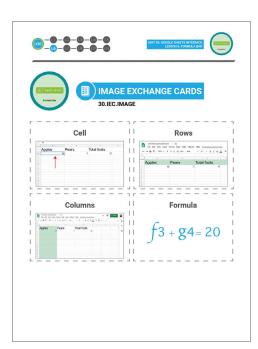


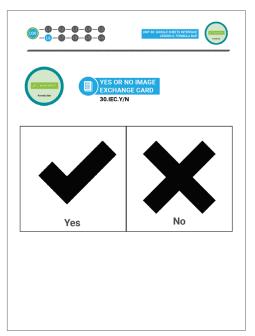






4. Distribute **30.IMAGE.IEC** or **Yes** or **No Image Exchange Cards 30.IEC.Y/N** to students. See DIFFERENTIATION for this activity to identify supplements needed for your students.







- On-topic shared verbal response
- Writes response down in notebook OR rephrase prompt to a **yes or no** question
- Distribute **Yes or No Image Exchange Card** [30.IEC.Y/N] for rephrased question







Give immediate feedback to each student (see below). Record Workplace Behavior earnings and/or spending on the **Dollar Earnings** Tracker. [30.6.DollarTracker]

[NAME] + [BEHAVIOR] + [CONSEQUENCE] + [REPLACEMENT BEHAVIOR/REINFORCEMENT]



SUCCESSFUL

"Nice job [Behavior], Marcus. You earned a [Behavior] dollar."

PROBLEMATIC

"Marcus, you [Behavior]. [Behavior]s cost \$1. Next time, [Replacement Behavior] to earn a \$1."

Participation/Contribution Sharing/Helping **Greeting a Guest** Following Directions/Staying on Task **Encouraging**

Off-task Off-topic/Inappropriate Comment Disrespect/Teasing Complaining/Whining Interrupting **UMAPA Arguing**

Pro tip: Stick to the script! Help your students develop self-regulation strategies. Do not give lengthy explanations for behavior. Using clear language formulas helps students identify the workplace behavioral norm AND the optimal replacement behavior.

PLAY ACTIVITY VIDEO



1. Ask the class, "Who would like to unlock the Formula Bar Badge for \$1?"

Click Activity Button to Play Activity Video

- 2. Student discusses with class to choose the correct answer.
- a. If student chooses correct answer, have student or whole class dance.
 - b. If student chooses incorrect answer, repeat Step 2 until

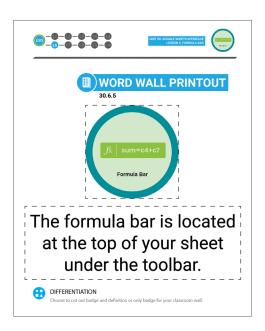








3. Distribute and cut out **Word Wall Printout 30.6.5** Students that unlocked the badge will place the Formula Bar printout on the classroom's word wall. See DIFFERENTIATION for this activity to identify supplements needed for your students.





- Student will use verbal prompting to unlock the badge with the class.
- Student will use verbal prompting and hand signals to unlock the badge with the class.
- Student will use hand signals, pointing, prompting levels or adult/Tier 1 partner support to unlock the badge with the class.







Give immediate feedback to each student (see below). Record Workplace Behavior earnings and/or spending on the **Dollar Earnings** Tracker. [30.6.DollarTracker]

[NAME] + [BEHAVIOR] + [CONSEQUENCE] + [REPLACEMENT BEHAVIOR/REINFORCEMENT]



+S SUCCESSFUL

"Nice job [Behavior], Marcus. You earned a [Behavior] dollar."

-S PROBLEMATIC

"Marcus, you [Behavior]. [Behavior]s cost \$1. Next time, [Replacement Behavior] to earn a \$1."

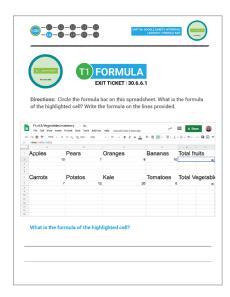
Participation/Contribution Sharing/Helping **Greeting a Guest** Following Directions/Staying on Task **Encouraging**

Off-task Off-topic/Inappropriate Comment Disrespect/Teasing Complaining/Whining Interrupting **UMAPA Arguing**

ASSESSMENT/EXIT TICKET



1. Distribute the Formula Bar Exit Ticket 30.6.6 to students. See DIFFERENTIATION for this activity to identify supplements needed for your students.













DIFFERENTIATION

Using Tier 1 **Formula** Exit Ticket [30.6.6.1], student circles the Formula Bar on this spreadsheet. Write the formula on the lines provided.

- Using Tier 2 **Formula** Exit Ticket [30.6.6.2], student circles or points to the Formula Bar on this spreadsheet. Circle the answer on the multiple choice question.
- Student has option to complete **Formula** Exit Ticket [30.6.6.2] or **Trace 'n' Learn card** Exit Ticket [30.6.6.3].



2. Give immediate feedback to each student (see below). Record Workplace Behavior earnings and/or spending on the **Dollar Earnings Tracker. [30.6.DollarTracker]**

[NAME] + [BEHAVIOR] + [CONSEQUENCE] + [REPLACEMENT BEHAVIOR/REINFORCEMENT]



SUCCESSFUL

"Nice job [Behavior], Marcus. You earned a [Behavior] dollar."

-\$ PROBLEMATIC

"Marcus, you [Behavior]. [Behavior]s cost \$1. Next time, [Replacement Behavior] to earn a \$1."

Participation/Contribution Sharing/Helping Greeting a Guest Following Directions/Staying on Task Encouraging Off-task
Off-topic/Inappropriate Comment
Disrespect/Teasing
Complaining/Whining
Interrupting
UMAPA
Arguing





IMMEDIATE FEEDBACK/NEXT STEPS

- 1. Read off Dollar Earnings Tracker and announce how many dollars each student earned or spent during the lesson.
- 2. Students will fill in their dollar earnings from the lesson using their **My Digitability Earnings sheet**. Have students staple this sheet into their notebooks so they can use it for the entire unit.
- 3. If time permits, you can either have students log into their student accounts for independent practice or you can continue on to the next lesson plan.



- Login independently using password cards.
- Login independently using password card with the help from a Tier 1 partner for any required troubleshooting.
- Teacher or Tier 1 assistance to help student login using their password card.







Behaviors	Name	/	/	/	/	/	/	
Successful	EX: Les							
Participation/ Contributing	M							
Sharing/Helping/ Collaborating								
Greeting a Guest								
Following Directions/ Staying on Task								
Encouraging/ Complementing								
Problematic								
Off Task								
Off-Topic/ Inappropriate Comment								
Disrespect/Teasing								
Complaining/Whining								
Arguing								
Interrupting								
UMAPA								

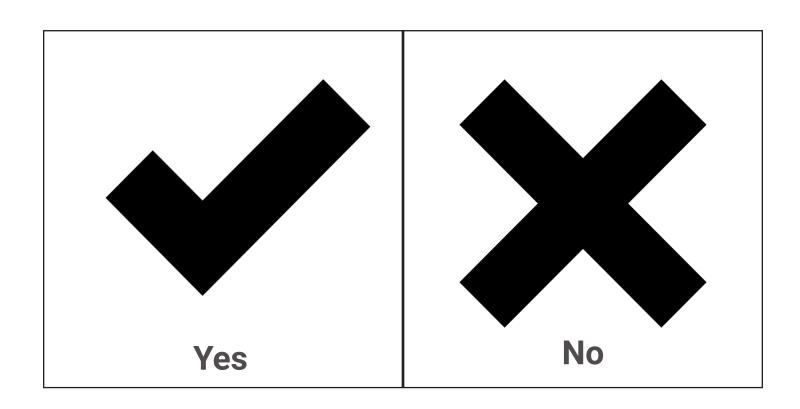






















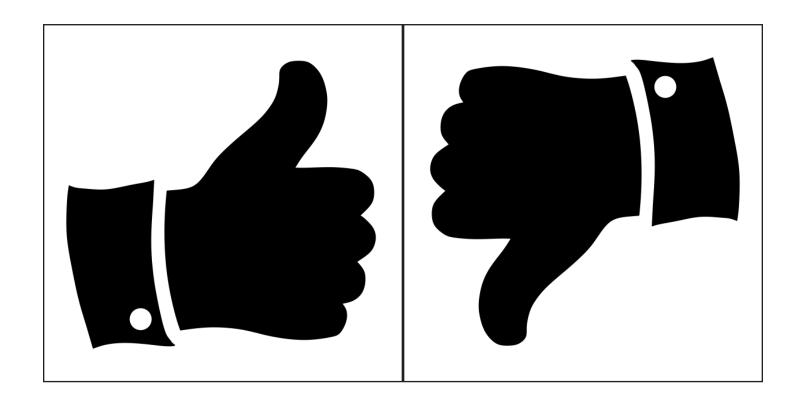






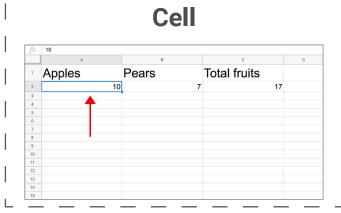


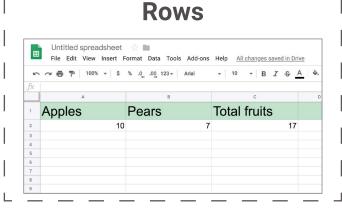




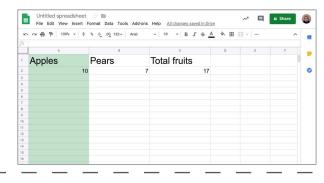
IMAGE EXCHANGE CARDS

30.IEC.IMAGE





Columns



Formula

$$f3 + g4 = 20$$

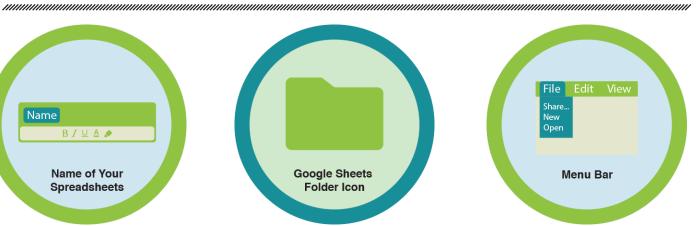




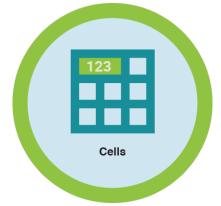


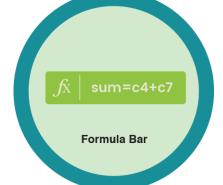


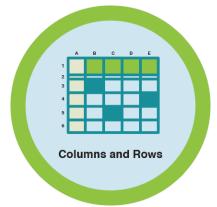


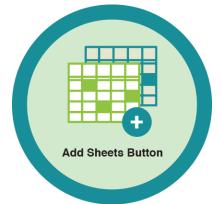










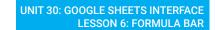








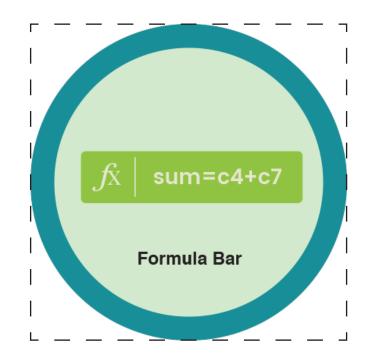






WORD WALL PRINTOUT

30.6.5



The Formula Bar is located at the top of your sheet under the Toolbar.



DIFFERENTIATION

Choose to cut out badge and definition or only badge for your classroom wall.



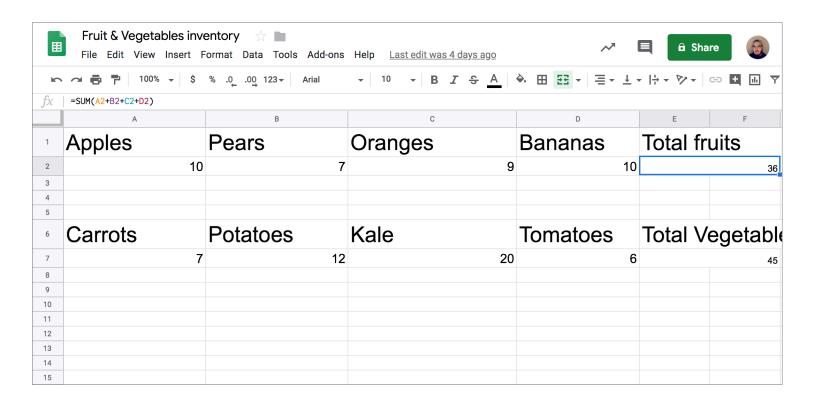








Directions: Circle the Formula Bar on this spreadsheet. What is the formula of the highlighted cell? Write the formula on the lines provided.



What is the formula of the highlighted cell?



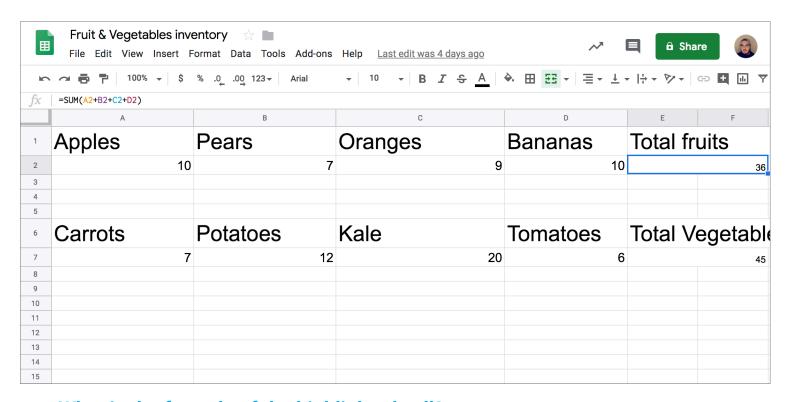








Directions: Circle or point to the Formula Bar on this spreadsheet. What is the formula of the highlighted cell? Circle the answer on the multiple choice question.



What is the formula of the highlighted cell?

- a. =SUM(A4+B6+C7+D10)
- b. =SUM(A2+B2+C2+D2)
- c. =SUM(A3+B3+C3+D3)
- d. =SUM(A6+B7+C8+D2)









T3) TRACE 'N' LEARN

EXIT TICKET | 30.6.6.3

Formula Bar

The Formula

Bar is located at the top of your sheet under the Toolbar.









MY DIGITABILITY EARNINGS TRACKER

Unit 30: Google Sheets Interface | 30.6.7

DIRECTIONS: Keep this page safe! After each lesson, mark down the date and the dollars you earned.

Name:				
	DATE:	DOLLARS EARNED:		
LESSON 1: Google Sheets File Name				
LESSON 2: Google Sheets Folder Icon				
LESSON 3: Menu Bar				
LESSON 4: Toolbar				
LESSON 5: Cells				
LESSON 6: Formula Bar				
LESSON 7: Columns and Rows				
LESSON 8: Add Sheets Button				
LESSON 9: Collaborator Bubbles				
LESSON 10: Comments in Google Sheets				
LESSON 11: Google Sheets Interface Master Badge				

TOTAL DOLLARS EARNED: