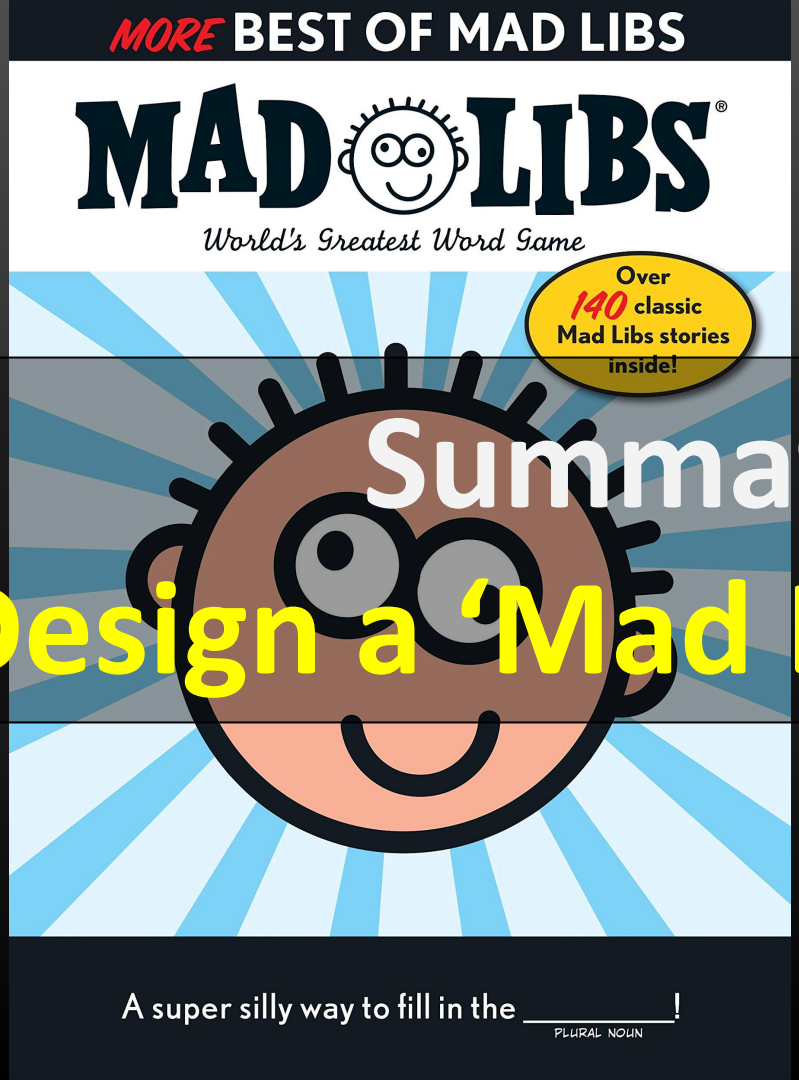
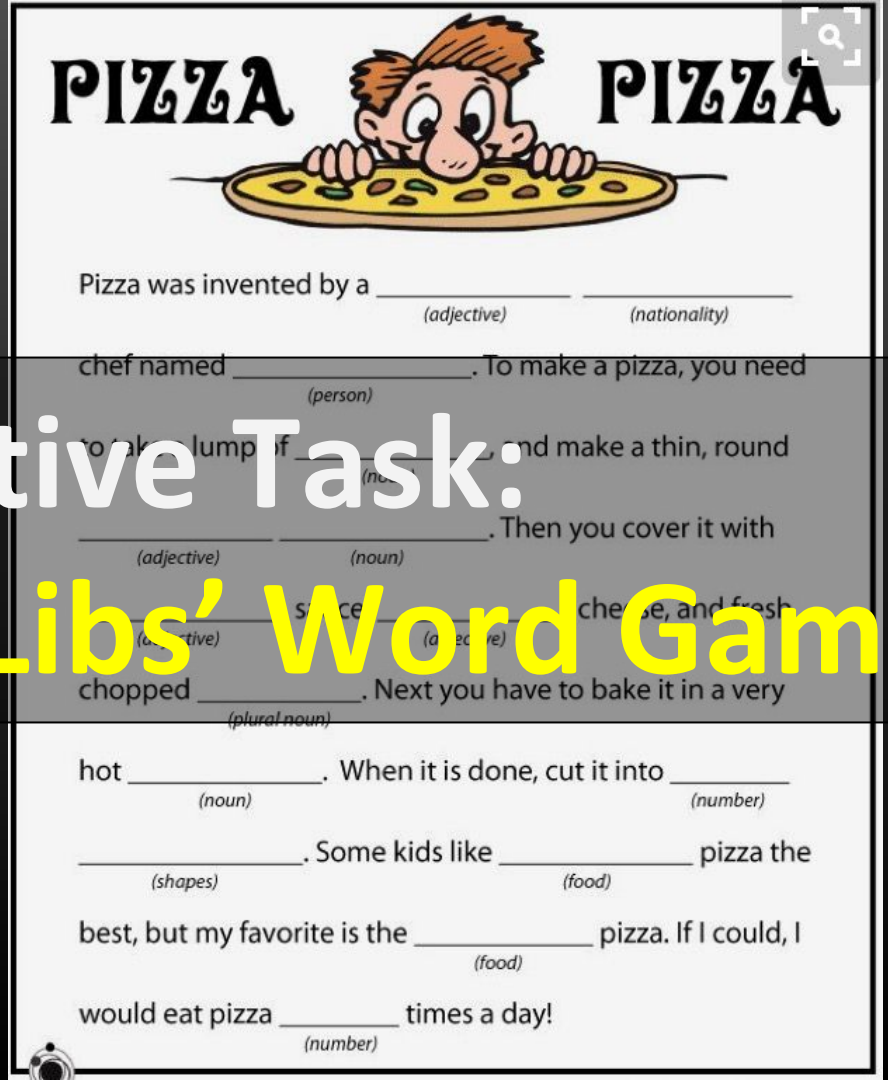




Summative Task:

Design a 'Mad Libs' Word Game

Summative Task: Word Game (Mad Libs)

Design Problem & Constraints

The company **EduGames** has hired you again to create a fun educational **Mad Lib-inspired** word game to promote creative writing for Middle School students.

The company has provided **three constraints you must follow** in your design:

1. The game must be no longer that 5 minutes to play.
2. The game must have **at least two choices of different Mid Libs** to play when ran.
3. There must be multimedia (ASCII artwork, sound, visuals) used to enhance the game.

Summative Task: Word Game (Mad Libs)

Teacher / Developer Expectations

1. The entire program will be explained with one flowchart (www.draw.io)
2. Selected algorithms explained using IB pseudocode (min. 2 examples)
3. The program is coded using Java in Repl.it (www.repl.it)
4. Comment header, commenting, camelCase, and whitespace

File 1: designPlan.pdf

File 2: wordGame.java

You may decide to submit additional files, for example:

Java Files
Sound Files
Images, Media, ect.

You will be **submitting minimum two documents**: (1) Design & Planning, (2) wordGame.java

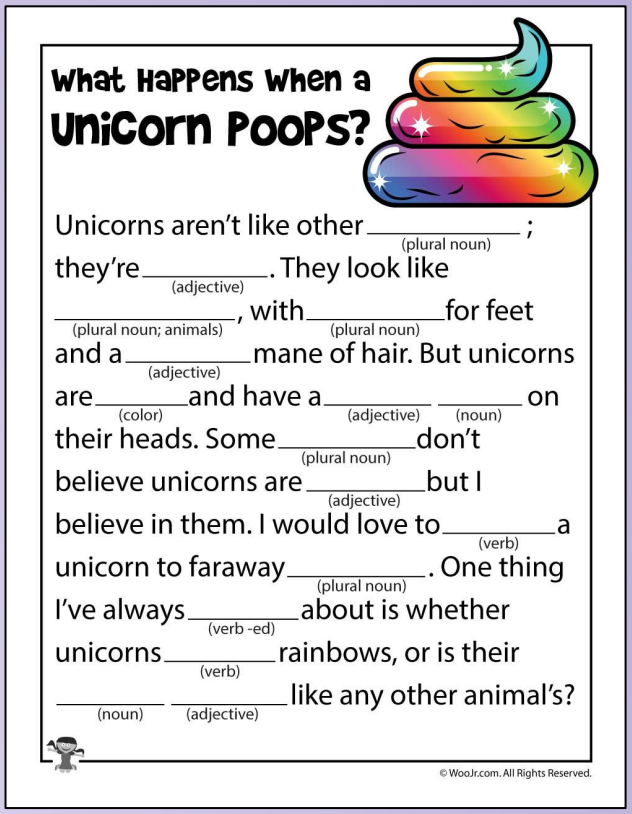
Summative Task: Word Game (Mad Libs)

Consider in your solution:

- Input & String Methods
- Randomization
- Conditionals & Loops
- Provide choice (2-3)
- Ask to play again
- Check for correct input
  - e.g. Integer vs. String

MAD LIBS™

[An example using the lyrics from The Beatles "Lucy in the Sky with Diamonds"]



Check out: https://www.madlibs.com/

DP Computer Science: Programming Task Rubric

	Design Flowcharts, Sketches, Prototypes, Pseudocode	**Readability** Documentation, Conventions, Comments	**Application** Meeting the Success Criteria	**Computational Thinking** Problem Solving and Algorithmic Design
4	Developed a **highly effective** design process, which **consistently** takes into consideration the **success criteria** of the end users in order to develop a **complete** solution.	The documentation is **exceptionally clear**, applies coding conventions **correctly**, and comments code **completely and consistently**.	The product **meets and exceeds** the success criteria, by **consistently applying** programming concepts successfully towards developing a **complete**, **innovative** and **creative** product.	The product and documentation show evidence of an **independent**, **thorough,** and **complete** understanding of **computational thinking skills**, problem solving, and algorithm design.
3	Developed an **effective** design process, which **generally** takes into consideration the success criteria of the end users.	The documentation is **generally clear**, applies coding conventions **accurately with limitations**, and comments code **substantially**.	The product **meets** the success criteria, by **applying** programming concepts towards developing a **complete** product.	The product and documentation show evidence of a **substantial** understanding of **computational thinking skills**, problem solving, and algorithm design **with minimal assistance**.
2	Developed a **moderately effective** design process, which **occasionally** takes into consideration the success criteria of the end users.	The documentation **lacks clarity**, applies coding conventions **inaccurately**, and comments code **inconsistently**.	The product **partially meets** the success criteria, and **inconsistently applied** programming concepts towards developing a product with **noticeable errors**.	The product and documentation show evidence of a **partial** or **incomplete** understanding of **computational thinking skills**, problem solving, and algorithm design **with moderate assistance**.
1	Developed an **ineffective** design process, which **rarely** takes into consideration the success criteria of the end users.	The documentation is **unclear or partially incomplete**, applies coding conventions **incorrectly**, and comments code **rarely**.	The product **does not meet the success criteria**, and is **ineffective at applying** programming concepts with **significant errors**.	The product and documentation show evidence of **a substantial misunderstanding** of **computational thinking skills**, problem solving, and algorithm design, and **requiring considerable assistance**.

Adapted from the IBO DP Computer Science IA Expectations and Guide
Updated: November 9, 2020