Card Matching

The slides below are a card game where children will match various computer components with their name. This activity is designed to teach children about the components that make up a computer and their roles.

Computer Components

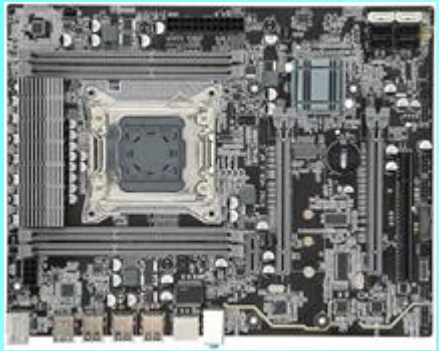
This is like the brain of the computer. It does all the thinking and calculations to help the computer work. Just like how our brain helps us think and solve problems.

A temporary memory for the computer. It helps the computer remember things quickly while it's turned on. It's kind of like a desk where you can lay out all your homework and books while you're working on them. But once you turn off the computer, RAM forgets everything, just like cleaning off the desk when you're done with your homework.

The computer's long-term memory. It's like a big storage space where the computer keeps all its important stuff, like programs, files, and pictures. It's where everything is stored even when the computer is turned off, just like how you keep your toys and books in a toy box or on a shelf when you're not playing with them.

Computer Components

This is like a special helper for making pictures and videos on the computer look really good. It's like having an artist friend who helps make all the colors and shapes on the computer screen beautiful and smooth. So when you're playing games or watching videos, this helps make everything look awesome!



Think of the this as the main hub or the heart of a computer. It's like a big puzzle board that holds all the important pieces of the computer together, like the brain (CPU), memory (RAM), and storage. Without this, the computer wouldn't work because all the parts wouldn't be connected properly.

This is like the magic box that gives energy to the computer so it can do its job. It's like the battery in a toy or the fuel in a car. Without this, the computer wouldn't have the energy it needs to turn on and do all the cool things it can do.

Computer Components

This is like a special kind of typewriter that you use to talk to the computer. It has lots of buttons called keys, and when you press them, they make letters, numbers, and symbols appear on the screen. It's how you type words and commands into the computer.

This is like a little pet that helps you move around on the computer screen. It's a small device that you hold in your hand and use to point to things on the screen. When you move the this, a pointer on the screen moves too, so you can click on things and make them happen.

This is like a TV screen for the computer. It's where you see all the pictures, words, and videos that the computer shows you. It's like a window into the computer's world. Without this, you wouldn't be able to see anything that the computer does.

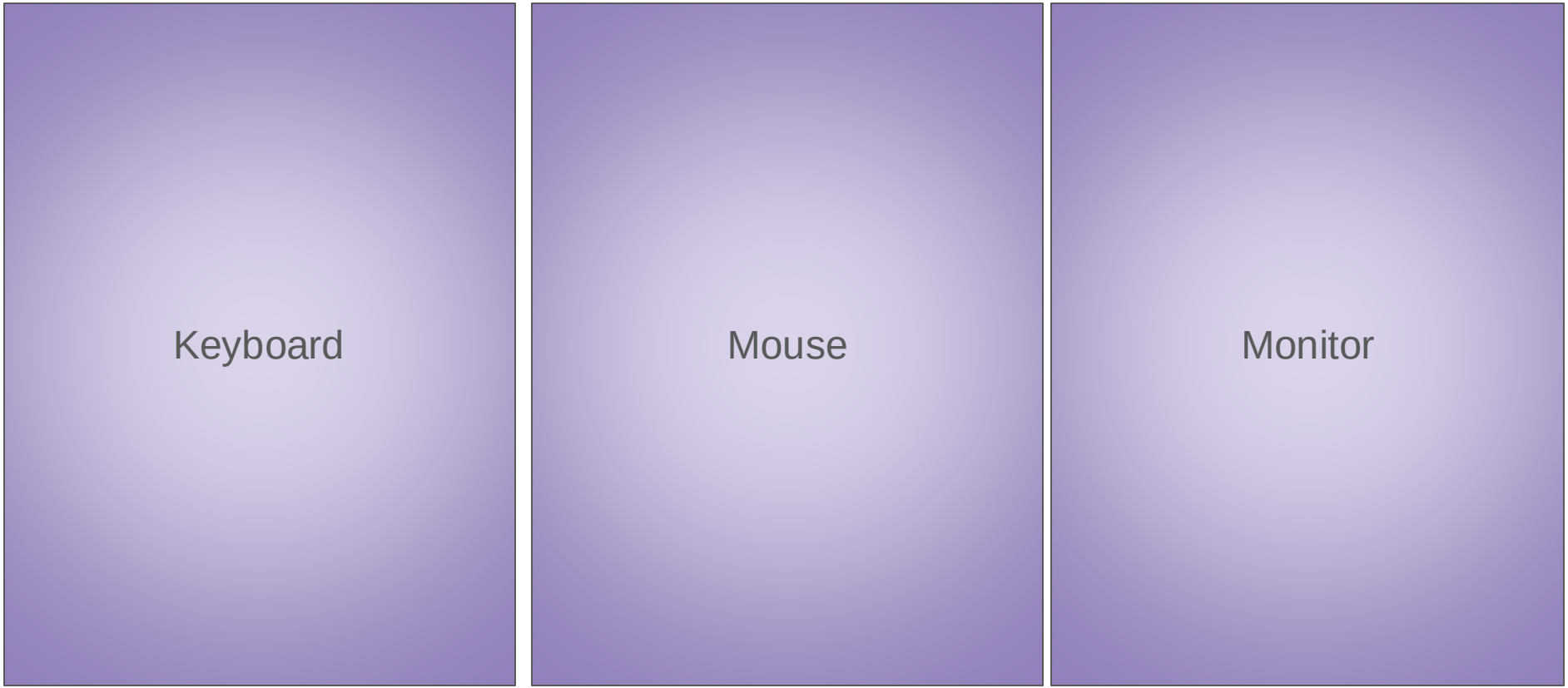
Computer Components (Answers)

Central Processing Unit (CPU)	Random Access Memory (RAM)	Hard Drive

Computer Components (Answers)

Graphics Processing Unit (GPU)	Motherboard	Power Supply Unit (PSU)

Computer Components (Answers)



Placing Cards in sequential order

The slides below are several card games of things that happen in sequential order (butterfly lifecycle, holidays, and plant growth stages). Children will be given the shuffled cards and place them in order sequentially. This is designed to teach children the computational concept of sequential execution.

Sequence: Butterfly Lifecycle

https://ansp.org/exhibits/online-exhibits/butterflies/lifecycle/

Egg

Eggs are laid on plants by the adult female butterfly. These plants will then become the food for the hatching caterpillars.

Eggs can be laid from spring, summer or fall. This depends on the species of butterfly. Females lay a lot of eggs at once so that at least some of them survive.

Caterpillar

The next stage is the larva. This is also called a caterpillar if the insect is a butterfly or a moth.

The job of the caterpillar is to eat and eat and eat. As the caterpillar grows it splits its skin and sheds it about 4 or 5 times. Food eaten at this time is stored and used later as an adult.

Pupa (Cocoon)

When the caterpillar is full grown and stops eating, it becomes a pupa. This stage can last from a few weeks, a month or even longer.

It may look like nothing is going on but big changes are happening inside. Special cells that were present in the larva are now growing rapidly. They will become the legs, wings, eyes and other parts of the adult butterfly.

Sequence: Butterfly Lifecycle

https://ansp.org/exhibits/online-exhibits/butterflies/lifecycle/

Butterfly

The adult stage is what most people think of when they think of butterflies. They look very different from the larva. They can also fly by using their large and colorful wings.

Flying comes in handy. The adult female can easily fly from place to place to find the right plant for its eggs. This is important because caterpillars can't travel far.

Sequence: Holidays

New Years (January)

Valentines Day (February)

Easter (March/April)

Sequence: Holidays

Memorial Day (May)

Independence Day (July)

Halloween (October)

Sequence: Holidays

Thanksgiving (November)

Christmas (December)

Sequence: Flower

https://www.saferbrand.com/articles/plant-growth-stages

Sprout

Each seed contains a small parcel of nutrients that is all they need to germinate and begin growing their first pair of leaves.

Seeding

As plants' roots develop and spread, a boost of quickly absorbed, well-balanced nutrients fuels the rapid growth from spindly seedling to healthy plant.

Vegetative

Nitrogen is a key component of chlorophyll, the green pigment in plants, so it's the critical nutrient when their energy is focused on growing stalks and foliage.

Sequence: Flower

https://www.saferbrand.com/articles/plant-growth-stages

Budding

Phosphorus is in extra high demand at the start of a plant's reproductive cycle, the transition from growing leaves to forming buds.

Seeding

Potassium plays a primary role in producing and transporting the sugars and starches plants use up as they develop healthy flowers and fruit.

Vegetative

When flowers and fruit are verging on full maturity, they need a week or two of just water without nutrients, a process known as "flushing," so they can use up all the nutrients they have already absorbed.