ANSWER KEY

Activity Keys

Keys for every activity sheet in this lesson, in day order.

Day 1 activity: Which Job Is It?

How to grade: Give 1 point for each row with the right job and a reason that fits. The last question is worth 2 points: 1 for an input and an output, and 1 for what the device processes and what it stores.

#	Answer	Sample answer	Give the point if
1	Input	The letters he types go into the computer.	Circles Input and says the typing goes in.
2	Output	The report comes out on paper.	Circles Output and says the report comes out.
3	Processing	The computer works out the new score.	Circles Processing and says the computer works out the score.
4	Storage	Saving keeps the drawing after the power is off.	Circles Storage and says the drawing stays saved.
5	Input	The spoken question goes into the speaker.	Circles Input and says the question goes in.
6	Processing	The phone works with the map to find the way.	Circles Processing and says the app works out the route.
7	Output	The sound comes out to the listener.	Circles Output and says the sound comes out.
8	Storage	The photos stay saved for later.	Circles Storage and says the photos stay saved.

Last question. Pick a device you use every day, like a phone or a game console. Name its input, its output, what it processes and what it stores. Write 2 sentences.

Sample answer: On my phone, my taps are input, and the screen and the speaker are output. It processes my messages and stores my photos.

1 point for an input and an output, and 1 point for what it processes and what it stores.

Day 2 activity: Power-On Reports

How to grade: Give 1 point for the right missing part and 1 point for a job that fits that part. Each of the last two questions is worth 2 points: 1 for each sentence that matches the key's sample answer or says the same thing in other words.

#	Sample answer	Give the point if
Tamara	The power supply. It powers the other parts.	Names the power supply, and says it powers the parts.
Raymond	The CPU. It follows the program's instructions.	Names the CPU, and says it processes or follows instructions.
Carmen	The memory. It holds what the computer is using now.	Names the memory (RAM), and says it holds what's in use.
Derek	The storage drive. It keeps programs and files saved.	Names the storage drive, and says it keeps files saved.
Q1	No, he isn't right. His CPU light is off, so the computer stopped at the CPU step and never got to storage.	1 point for saying no, and 1 point for saying it stopped at the CPU step before storage.
Q2	In our model, the computer starts one step at a time and stops at the first step that doesn't work. Memory comes before storage, so it never gets to the storage step.	1 point for each sentence: it stops at the first step that fails, and memory comes before storage.

Day 3 activity: Explain the Path

How to grade: Give 1 point for each answer that matches the key's sample answer or says the same thing in other words. Question 2 is worth 2 points: 1 for each part's job.

#	Sample answer	Give the point if
Q1	The scanner is the input device, and it sends in a picture of the slip.	Names the scanner and says it sends in the slip.
Q2	The CPU follows the program's instructions to work on the picture. Memory holds the picture while the CPU works.	1 point for the CPU's job and 1 point for memory's job.
Q3	It goes to the storage drive, so it stays saved after the power is off.	Names the storage drive and says it keeps the slip saved.
Q4	The monitor is the output device.	Names the monitor (or the screen).

Last question. Write the whole path in order, from the scanner to the monitor. Write 1 sentence.

Sample answer: The slip goes from the scanner to the motherboard, then to the CPU and memory, then to the storage drive and the monitor.

Starts at the scanner, goes through the CPU and memory, includes the storage drive and ends at the monitor. The motherboard is optional.