Standard: DA.S.01   Grade: K

Standard K.DA.S.01
Identify that information from our everyday lives can be stored and accessed via **computing devices**.

Essential Skills
Identify information that can be stored on a **computing device**.
Identify the information that cannot be stored in a computing device.

Essential Questions
What are different types of **data** that can be used and stored on a **computing device**?

Explanation
Students will recognize that all information stored and processed by a **computing device** is referred to as data. **Data** can take many forms: images, text documents, audio files, **software applications**, video files, etc.. By second grade, students will be able to find files on a computer in order to locate data, as well as create, save, copy and delete the files.

Think of this as similar to….
There are different kinds of clothes in a dresser. There may be socks, pajamas, shirts and more.

Implementation Examples—What would this look like in the classroom?

Title	Description	Link	Content Connection & Notes
Retelling Fairy Tales	Grade K--When students use Bee Bots or other floor robots they should recognize that when they press the buttons on the robot, they are giving the robot information that is saved. Once they press run, the information is used to direct the robot. Students can recognize that the robots understand only the information from the buttons and can brainstorm types of information the robots can't understand like verbal commands. In this lesson students use the robots to retell popular fairy tales by sequencing four to six events. The lesson is flexible enough to accommodate any narrative that students are studying. Other examples can be given, like Alexa that responds to voice commands and tablets or phones that respond to touch on the screen.	Retelling Fairy Tales	This lesson also aligns with **ELA** RL.K.2
Storage and Selfies	**Grade K**- Students take selfies with a computing device, Students will realize that the selfies are stored on that device. Students love selfies! Contrast that with actual pictures that the students draw or color. Brainstorm ways that those pictures can be stored on a computing device (e.g., taking a photo of it) **Grade 1**--Students take and save selfies on a computing device and once stored, they locate the photos in the storage of the device possibly for use with another project. **Grade 2**--Students prune selfies (delete poor ones). Make copies of the ones they like best and crop or otherwise alter them in different ways possibly for a project. Write or record a short description of their favorite selfie. Students should understand that an image file, a text file and an audio file are all data stored on a computing device.	Storage and Selfies	

Standard: DA.S.01 Grade: K

These annotations are a collaboration between Maryland Center for Computing Education and the Maryland State Department of Education.