

DIGITAL BADGES FOR ENRICHMENT

As students successfully complete enrichment activities, they can acquire a digital badge. The badges will be transferrable via OpenBadges and other social platforms that students can use in the future. The following are descriptions for the enrichment activities and the criteria for earning the badge:

Badges	Activity	Summary	Criteria
	Density Investigation	This award is presented for uncovering the true densities of matter in the science lab. Students in #lab110 worked to review the densities of matter and generate profiles of those densities. The completion of this experience included calculations and inferences obtain while working in the lab.	Completion of the density enrichment experience in the lab.
	Mystery Powders Lab	This award is presented for investigating unknown powders in the science lab and determining their identities. Students in #lab110 worked to understand the names of similar white powders in the lab. Students were told to create a protocol to examine the interactions of known white powders with various tests. Using the protocol, the students were to uncover the identities of the unknown substances.	Successful creation of a lab protocol using physical and chemical changes to determine the identities of substances.
	Phases Lab	This award is presented for investigating the changes of matter as it undergoes a change in state under controlled conditions. Students in #lab110 explored solid water as it was uniformly heated and changed into liquid and gaseous states. Students compared their results to predictions that were made prior to the lab. Students were then to make inferences about the data they had collected.	Successful completion included a thorough review of the data collected and developing an explanation for the phenomena displayed when increasing energy to a substance as it changes state.
	Buoyancy Lab	This award is presented for designing a craft to use the buoyancy of a heat source to rise above the surface. Students in #lab110 investigated lighter than air vehicles and attempted to use differences in density to lift a model craft into the air.	Successful completion of this project concluded with a craft that was able to use a heat source to lift off the surface.