**Design Criteria Worksheet: USB Pen**

In this design challenge, students must apply their understanding of design and the technical skills required to use Autodesk® Inventor® to develop a commercial USB Pen. Encourage students to supplement the resources provided in this project with other sources of knowledge that can include their texts, teachers, and the wide array of online resources.

To develop innovative project solutions, it is critical that you develop a clear understanding of all relevant design criteria. This worksheet is intended to help you identify important factors that shape this project by prompting a response to questions in four key categories: Who, Where, What, and Why.

**WHO**

* Who will use the USB Pen?
* Who will produce the ideation sketches?

**WHERE**

* Where will the USB Pen be used?
* Where will the USB Pen be designed and where will it be manufactured?
* Where will the USB Pen be shipped to?

**WHAT**

* What are the specific environmental factors that will impact the design of the USB Pen?
* What are the functional requirements for the USB Pen?
* What are the aesthetic requirements for the USB Pen?
* What materials are best suited for the USB Pen?
* What are the optimal wholesale and retail prices for the USB Pen?

**WHY**

* Why is the product needed?
* Why is there a need for the USB Pen when multiple types and brands already exist in the market?
* Why would an individual or institution purchase this USB Pen?