Lesson 4
Designing a Lighting System

• To re-use the model tombs without damage to the box, tell students they cannot attach anything to the floor, ceiling or walls of the model tomb. This also reinforces the idea that scientists do not change, damage, or modify ancient sites, such as Egyptian tombs.

Ask/Imagine:
• Before asking students to do individual Imagine pages, provide some time for students to try out mirrors and the flashlight in the model, without the cover. After a bit of explore time (this could be part of the ASK step), remove materials and provide Imagine pages.

Plan/Create:
• Use the group’s plan as a ticket to materials.
  o Encourage students to explain the plan and how it will work, reinforcing optical engineering language.
  o Ensures that they have all materials listed that they will “purchase” and a diagram of mirror locations.