

Lesson 9: The Mystery Object

Reading Questions

Choosing Materials for Pedal-Powered Flight

- 1) What two properties did the designer of *Daedalus* look for in the materials he needed to build a human-powered airplane?
- 2) Imagine you have been asked to design the items in the table below. What three properties would you look for when selecting the materials to make each item? What materials would you use to make each item? Write a reason for using each material you choose.

Item	Properties	Materials	Reasoning
Raincoat	1. 2. 3.		
Bullet-proof vest	1. 2. 3.		
Milk Bottle	1. 2. 3.		
Fishing weight (sinker)	1. 2. 3.		