

Materials List for

# Using a Thermal Camera to Measure Heat Loss Through Bird Feather Coats

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## Materials

| Name                            | Company          | Catalog Number                                             | Comments                                                                         |
|---------------------------------|------------------|------------------------------------------------------------|----------------------------------------------------------------------------------|
| Aluminum Foil                   | Reynolds Wrap    | 109000831                                                  | 30 square ft.; this exact model need not be used.                                |
| Foam Core Board                 | Foamular         | 20WE                                                       | 1 in. x 4 ft. x 8 ft; this exact model need no be used.                          |
| General Purpose Water Bath      | PolyScience      | WB02                                                       | Ambiet +5 °C to 100 °C; ±0.1 °C                                                  |
| PDF Data logger                 | Elitech          | RC-51H                                                     | Built in temperature and humidity sensor                                         |
| Plexiglass                      | AdirOffice       | 1212-3-C                                                   | Acrylic glass; 12 in. x 12 in. x 1/8 in.; this exact model need not be used.     |
| Thermal Image Analysis Software | FLIR             | ResearchIR Max v4.40.7.26 (64-bit)                         | Allows collection of precise, quantitative thermal data                          |
| Thermal Imaging Camera          | FLIR             | SC655                                                      | 680x480-pixel resolution, ±2 °C or ±2% accuracy, 40 cm minimum focusing distance |
| Tripod                          | The Audubon Shop | The Birder Tripod with Manfrotto 700RC2 Rapid Release Head | 65" maximum height; this exact model need not be used.                           |