



Materials List

For the Instructor:

EDC Presentation Slides for Students ready to project on a screen

Copy of *EDC Discussion Guide*

Copy of *EDC Challenge Checklist*

For each group of 4-6 children:

Assorted materials to test, such as:

- Construction paper, 30 pieces cut into 6-inch squares
- Card stock paper, 30 pieces cut into 6-inch squares
- Copy paper, 30 pieces cut into 6-inch squares
- Tissue paper, 30 pieces cut into 6-inch squares
- Cotton batting, 8-10 small pieces (may use square or round make-up pads from drug store)
- Fabric, 6-8 pieces cut into 6-inch squares

8-10 foam cups

1 LED or bright flashlight

1 Metric ruler

Copy of *Ray Shielding* student data sheets

Copy of *Design Packet*

Copy of *Media Release Form* for each participating student

Copy of *Video Criteria and Video Rubric*

Camera or video camera to document their activities

Access to laptop or desktop computers with high-speed internet connection and video editing software

Optional: 6-8 UV beads

For the classroom:

Balance or scale, if available

Gram weights or small paper clips

Laptop or desktop computer with high-speed internet connection

Computer projection and sound system

Additional resources:

NASA Exploration Design Challenge (EDC) Introductory Video:

<http://www.nasa.gov/education/edc>

NASA EDC Ask the Experts Videos (see *EDC Discussion Guide* for specific videos)

http://www.nasa.gov/multimedia/videogallery/index.html?collection_id=86141