

ENGAGE 1:**For the class:**

- Picture of the forest

For each student:

- Student Science Journals

ENGAGE 2:**For each group:**

- 3 pre-punched index cards
- Flashlight
- Mirror
- Mirror stands or binder clips

For each student:

- Student Science Journals

EXPLORE:**For each pair of students:**

- Student Science Journals
- Two mirrors
- Mirror stands or binder clips
- Bull's eye pattern card
- Flashlight
- Meter stick

EXPLAIN:**For each group of students:**

- Student Science Journals
- Flashlight
- Binder clips
- Mirror
- White unlined index card
- Set of index cards covered with black construction paper, aluminum foil, and dark cloth

ELABORATE 1:**For each student:**

- Crayons
- Copy of Zigzag Ray Sheet

For each pair of students:

- Crayons
- Hinged mirror
- Bear counter

ELABORATE 2:**For each student:**

- Copy of Periscope Sheet

For each group:

- Copies of tube masters
- Two mirrors & binder clips\
- Bear counter
- Tape or glue
- Scissors

ELABORATE 3:**For each student:**

- Science Journals or sheet of paper
- Mirror

ELABORATE 4:**For each student:**

- Copy of Symmetry Student Data Sheet
- Small transparency squares

For each pair of students:

- One Reflecta

EVALUATE:**For each student:**

- Copy of Reflection and Symmetry Assessment
- Copy of Scoring Rubric
- 2 mirrors
- glue
- scissors