

LIGHT & SHADOWS DAY PROGRAM

BENNETT CENTRE GRADE 4 SCIENCE LIGHT & SHADOWS

Please have everyone bring
a second pair of shoes to be
used indoors.



This day program runs from 9:30-2:30 and only includes indoor activities.

The following is a list of activities that may be included in the day program. Learner expectations that will be addressed are indicated beside each activity. Students will rotate from station to station and carry out a variety of experiments:

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| SLE 1 | 1. | Discuss safety precautions dealing with light sources |
| SLE 2, 3 | 2. | Identify light sources and distinguish between objects that emit their own light from those that require an external source in order to be seen |
| SLE 4 | 3. | Discover that light travels outward from a source and continues unless blocked by an opaque material |
| SLE 5, 6 | 4. | Observe that opaque materials cast shadows and identify the changes in the size and location of shadows during different times in the day |
| SLE 7, 8, 9, 10 | 5. | Distinguish between and classify materials as transparent, translucent and opaque materials |
| SLE 11 | 6. | See that light can be broken into colours and combine them to make new colours |
| SLE 12 | 7. | Utilize a variety of optical devices, which include hand-held lens, microscopes, pinhole cameras, light-sensitive paper, and kaleidoscopes |

It would be advantageous for you to bring 2-3 adults per class (including the teacher). Please have students bring a pencil and wear a nametag. Students will rotate through 8 experiments before lunch and 8 stations after lunch.

Students will be provided with a student booklet in which to record observations and conclusions as well as answer questions testing their understanding of the concepts. The Bennett Centre will provide an instructor, materials and equipment.

ALLERGY ALERT REMINDER
The Bennett Centre, at all locations, is
fragrance free and peanut free for the safety
and comfort of our visitors and staff.