**List of Material for Experiments SIW1**

General material list:

* Computer
* Remote control
* Projector
* Screen
* Extension cable
* White board
* White board pens
* White board scale
* White board triangle
* Hand towel
* Bucket with clean water
* Bucket for waste water
* Box for dry waste
* Stand for experiments
* 2 pointer stick
* Plain A4 paper
* Room darkening (black curtains)
* Power-supply (Generator)
* Stone-plate
* Masking tape
* Toilet paper
* Pencil

**Why is Western Science education important  for Buddhist nuns and monks?**

* Candle
* Matches
* Plain A4 paper
* Ev. plant in pot
* Inflatable globe

**History of Science**

* 1 m sting
* Roll toilet paper
* Plain A4 paper
* Piece of wire
* Wash bottle (3 or 5 dl PET bottle with short PVC hose fixed through the cover)
* Ink
* Water heater
* Pan
* Bucket with cold clean water
* Model Chain, pulley, door
* Inflatable globe
* 2 pointer steak, plasticine, tape
* Tennis ball ev. stone
* Paper airplane

**Approach in Western Science**

* n funnels from PET bottles + one Ping-Pong balls for each student
* Pointer stick
* Plain A4 paper
* Inflatable globe
* 2 point steak, plasticine, tape
* Tennis ball ev. stone
* Paper airplane

**Nature of Light**

* Pointer stick
* Torch
* Candle
* Stone-plate
* Incense sticks
* Matches
* Fluorescence Star
* Laser red
* Dental floss
* Rectangular object (e.g. book)
* Stand with 2 spot-lamps mounted
* Transformer
* Glass colour filter
* Prism
* Mirror
* Stick taped on chair
* Rotating rainbow disc
* Coloured sheets of paper or clothes

**Reflection**

* Candle
* Stone-plate
* Incense sticks
* Matches
* Aluminium foil flat
* Aluminium foil crumbled
* White paper
* Black paper
* Grey Paper
* Laser
* Big mirror
* N Small mirrors for students
* Model Cardboard + Normal (Pencil)
* Model Cardboard for Reflection with incoming, outgoing ray and normal

Demo-Exp.: Optional Experiments:

* Burning candle under Water (Candle, glass with water, plexy glass-plate with stands in between)
* Triple-mirror with Laser und Smoke (3 flat mirrors taped together as a corner of a box and laser and smoke)
* Rear reflector (Katzenauge)
* Lower half of "Magic Mirror" and burning candle and screen
* Look into soup spoon (both sides) concave und convex
* Cosmetic-mirror
* Magic Mirror

Optional:

**Refraction**

* Torch
* Candle
* Stone-plate
* Incense sticks
* Matches
* White paper
* Laser + mirror
* Glass filled with water
* Spoon
* 2.5.litter PET bottle part of side cut out filled with water,
* Little mirror
* 2 small logs of wood
* Few drops of milk
* Stand with prism

Optional Experiments:

* Total Reflection
* Optical fibre
* Horizontal water jet from little hole at bottom of 2.5 L bottle with LASER

**Introduction Biology and Germination**

* Seed for germination: Chickpea, Mustard, mung-bean, ev. alfalfa
* N\*3 Transparent plastic cups or glasses
* N\*3 Porous cover fabric (Migros)
* N\*3 Elastics to fix fabric
* N/2 Plates for cups to put on
* Few small sticks
* N Plastic coffee-spoons
* Drinking water
* N PET bottles
* N permanent felt pens black
* Biscuits salted

**Biology Observing**

* Plant in pot for decoration and focus
* Seed for drawing: Sunflower-seeds
* 2 or 3 plates to collect seed (easier to find own seed)
* Thin paper
* n magnifier
* n almonds
* n peanuts
* Ev. visualizer

**Biology Flowers**

* Different small plants with roots (e.g. grass, weed)
* Vegetable with strong vessels (e.g. cauliflower or celery)
* Capillary tubes
* Ink + water
* flat plate
* N bottom parts of a 3dl PET bottle as small bowl
* > N strips of blotting paper approx. 1 cm width and 7 cm length
* Ev. video camera on stand
* Different flowers (single and composite)
* n magnifiers
* 2 small kitchen knives
* 1 long glass tube
* Coke or black tea

**Biology Symmetry**

* 6 posters of flowers (format A3) fixed on the wall
* n cosmetic-mirrors

**Introduction Chemistry**

* Spoons, forks made of plastic and metal
* Transparent glass cup filled with drinking water
* Sugar, salt
* Iron nail
* Bunsen burner + matches
* Gas cylinder
* Stone plate
* Laboratory pliers
* Chocolate
* Biscuits (sweet)
* Water heater
* Big bowl
* 2 small bowls
* Stand
* Ev. Pyrex glass
* Ice cubes
* Electronic thermometer
* Magnesium ribbon
* Steel wool
* Beam balance
* Fine iron wire 2 pieces 10 cm to fix Fe-wool

**Chemistry Burning Candle**

* N candles
* N matchboxes
* N small carton plates
* 2∗N candles
* N Steel mesh
* N clothes-peg
* N glass tubes 7 cm long
* Magnifier
* Stand with funnel mounted upside down connected to hose
* Limewater (has to be prepared 2 days ago by solving Ca(OH)2 in Dest-Water
* Test tube
* Drinking straw
* Brick
* Glass
* Toilet paper
* N tea candles
* N drinking glasses
* N small plates, water-resistant

**Climate Change**

* 2 temperature sensors and computer with program "Logger Light App"
* 2 Coca glass bottles, one covered with sooth one with aluminium-foil, filled with water
* 2 identically formed thermofoam boxes
* Masking tape
* Aluminium foil A4 size
* Candle+ matches
* 1 Plexy glass to cover