

# Grade 1 Science

Lesson: 4-1

Unit: Materials, Objects and Structures

Topic: Intro - Materials + Objects

## Lesson

- Have students sit in a circle
- Place a variety of objects in the middle
- Tell students that we are going to pretend we are running a store
  - We want to sell these objects
  - We only have 4 display tables
  - We need to organize the objects to sell them
- Ask students for ideas on how we could sort them → do it
- When sorted by material: discuss concept of "Material" and "Object"
  - Material → the substance from which something is made
  - Object → things that are made from one or more material
- Practise → "Name a material" → "name an object made from that material"
  - "Name an object" → "What materials is that object made from?"
- If time, start title pages → Write title on board for student

## Reminders

## Supplies Needed

- Objects made of plastic, metal, wood or ~~stone~~ fabric
- Plain Paper

## Homework

## Notes

i used: keys, aluminum foil, book stand (metal)  
jinx wood, wood block, wood box  
PJs, cloth bag, dishcloth  
water bottle, plastic lid, tupperware

# Grade 1 Science

Lesson: 4-2

Unit: Materials, Objects and Structures

Topic: Intro - Structures → T. He Key

## Lesson

- Show picture (bring in) tent
  - Ask "What do you call this object?" → Tent
  - "What materials is it made from?" → Nylon, plastic etc
  - "How does it stay up?" → poles
  - Explain that the poles ~~are~~ are the structural part of the tent  
structures → the supporting framework of an object
  - Practice → "What is structure of a ... house, desk" etc
  - Students use remaining time to do title page.
- } → Human.  
Material = skin + bones  
Structure = skeleton
- \*Fun →

## Reminders

## Supplies Needed

- Tent (or picture)
- Plain Paper

## Homework

## Notes

# Grade 1 Science

Lesson: 4-3

Unit: Materials, Objects and Everyday Things

Topic: Materials

## Lesson

- Review → Object = something made of one or more materials - "a thing"  
→ Material = the stuff an object is made from
- "Name some objects in the classroom." → "What materials is it made from?"
- "Name an object made from \_\_\_\_."
- Explain worksheet - Note: do not cross out words on back because they are used more than once
- Hand out worksheet
- Students work to finish worksheet
- When done students are to bring sheet to me to be checked
- If perfect students may colour pictures on worksheet, or work on title page

## Reminders

## Supplies Needed

- worksheets

## Homework

## Notes

# Grade 1 Science

Lesson: 4-4

Unit: Materials, Objects and Everyday Structures Topic: The Senses

## Lesson

- Place a series of objects at 5 different locations with picture to represent sense
    - Each group of objects should cater to one of the 5 senses
  - Divide class into 5 groups
    - Send 1 group to each location
    - 1 student per group takes a recording sheet
    - Students observe objects and discuss them in terms of particular sense
    - Descriptive words are recorded on their sheet
  - Groups are rotated every 5 minutes
  - At the end of class make a class list of descriptive words sorted by sense.
- \* Other option: Describe an object, have them guess

## Reminders

## Supplies Needed

- Variety of objects
- Taste pictures
- Recording sheets

## Homework

## Notes

- Need to insure understanding of the 5 senses

Mustard  
Choc powder  
Teens  
sock

Tuning Fork  
"Lisha Suya"  
Whistle  
Timer

Need  
better  
sign

Mirror  
Tin Plate  
~~Red~~  
Rubber Slipper  
Pipe Cleaner

Towel  
Table Cloth  
Play doll  
~~Paper~~  
Mug

# Grade 1 Science

Lesson: 4-5

Unit: Materials, Objects and Everyday Structures

Topic: Descriptive Words

## Lesson

- Review the 5 senses → "What is one of our senses?"
  - "What part of our body do we use?"
  - "What is an example word used to describe an observation made by that sense?"
- Ask "Which of our senses could be a safety issue if we use them?"
  - Don't taste unless you know what it is and have permission
  - Don't smell unless you know what it is and have permission
  - Items could be too hot or could cut you when feeling
  - Bright items can damage your eyes
  - Loud items can damage your ears
- Hand out worksheet and explain each task
- When students are done they are to bring paper to me to be checked
- When perfect, students may colour, work on title page or play description game with a partner → like "I spy" but uses various senses instead of colour.

... So be careful!

## Reminders

## Supplies Needed

- worksheet

## Homework

## Notes

- Words on worksheet need to be read out loud
- "doll" and "fragrant" were not understood = learning opportunity

# Grade 1 Science

Lesson: 4-6

Unit: Materials, Objects and Everyday Structures

Topic: Purpose / Function

## Lesson

- Ask "How can we observe something?" → use our senses \* Carpet
- Review senses
- Review material, → object and structure
- Ask "Why do you think we use different materials to make objects?"  
→ guide them towards: different things have different purposes
- Place a piece of sand paper in front of students
  - "I would like us to make observations on this object"
  - "How can we organize our information?" - Make table on board
  - Take student input to fill in table
  - Ask "Why do you think sandpaper is made this way?"
    - It is rough to help remove pieces of wood when sanding.

Sense	Observation
Touch	—
Smell	—
See	—
Hear	—
Taste	—

next class

- Divide students into groups, each group gets an object and a recording sheet.
- Observe object and state purpose → summarize with whole class at end

## Reminders

## Supplies Needed

- Sand paper
- Recording sheets (next class)
- Objects to observe → Nail, ~~Scrap~~ <sup>Scrap</sup>, Stone, tape, mirror, toothpaste (")

## Homework

## Notes

Grade 1 Science

Lesson: 4-87

Unit: Materials, Objects and Everyday Structures

Topic: ~~Absorption~~ Experiment

Purpose of objects

**Lesson**

- Review what we did with sandpaper
- Put students in groups and provide each group with a recording sheet and an object
- Groups observe their object, record observations, and discuss purpose
- As groups finish they are to conference with me then re-vamp
- Groups then discuss their "research" with class

**Reminders**

**Supplies Needed**

- ~~5 objects~~ - 5 objects (toothpaste, nail, hand soap, marker, tape) ...
- recording sheets

**Homework**

**Notes**

## Grade 1 Science

Lesson: 4-8

Unit: Materials, Objects and Everyday Structures

Topic: Purpose / Function

### Lesson

- Review "why do things use different materials, or why are they made differently?"  
→ different things serve different purposes
- Discuss examples from previous lesson
- Show and explain worksheet
  - Given an object, explain purpose of it and describe how it is made to suit that purpose
- Hand out worksheets
- When students are done they are to bring work to me to be checked
- If done students may pair up and look around room at various objects, they observe them and discuss their purpose.

### Reminders

### Supplies Needed

- Worksheets

### Homework

### Notes

# Grade 1 Science

Lesson: 4-9

Unit: Materials, Objects and Everyday Objects Topic: Absorption Experiment

## Lesson

- Show class an umbrella, raincoat and rubber boots
    - "What are these objects?"
    - "What materials are used to make them?"
    - "What is the purpose of the objects?"
  - Discuss material choice for purpose → need material that does not let water through
  - Teach the words "repel" and "absorb"
  - Explain experiment to students
    - test different materials for ability to absorb
    - Put material on a paper towel
    - Drop 5 drops of water on material
    - check paper towel underneath for moisture
    - Repeat for all materials
    - Repeat with 10 drops (in different, dry, area)
  - Show example
  - Distribute supplies
  - Students perform experiment
  - Clean up
- \* Hand out quiz note → write quiz date on it.

## Reminders

## Supplies Needed

- |                |               |                |           |
|----------------|---------------|----------------|-----------|
| - Quiz Note    | - Raincoat    | - Felt         | - Towels  |
| - Umbrella     | - Paper Towel | - News Paper   | - Kleenex |
| - Rubber Boots | - Eye Dropper | - T-shirt (PS) |           |

## Homework

## Notes

- Change to
  - hold material above
  - slowly drop droplets until it drips through
  - count how many.

\* Put on cup (beaker)  
put elastic to hold

# Grade 1 Science

Lesson: 4-10

Unit: Materials, Objects and Everyday Structures

Topic: Structures - Video

## Lesson

- Review → "What is the job of the structural components in an object?" → support
- "Why do we need structure to an object?" → so it can stay up/work
- "When you think of a "structure" what comes to mind?" - buildings
- Show video - Bill Nye - Architecture
- Discuss video
- Any extra time may be used for finish-up work.

## Reminders

## Supplies Needed

- Video
- Projector
- Speakers
- Picture of Golden Temple

## Homework

## Notes