# Grade 4 Science

**Lesson:** 2-1  
**Unit:** Rocks and Minerals  
**Topic:** KWL

## Lesson
- Students work in small groups to write down all they know about rocks and minerals on scrap paper.  
- Prep KWL on chart paper  
- Have volunteers read ideas  
  - if Fact (positive) write under "k" (known)  
  - if not sure write under "w" (wonder)  
- Discuss all ideas  
- Need to bring in an egg carton for lesson 2-3  
- Explain rock walk for lesson 2-3  
  - dress appropriately  
  - read info to explain (taken from pg 4-6)  
- Ask students to also start bringing in rocks they have at home

## Reminders

## Supplies Needed
- Chart paper  
- Scrap paper  
- Markers

## Homework
- Bring in egg carton

## Notes
- Make digital example of KWL chart next time
# Grade 4 Science

## Lesson

- Read top of page 2 in *Science Tech*
- Have students look at pictures and describe them with a partner
- Have partners follow instructions for questions
  - For #3, have students make a table and include images on pg 3
  - Rock Location Why special? Other Info
- Share answers to questions
- Explain homework → find a picture of cool rock formation
  - Internet, magazine, etc.
  - Print/cut out
  - Bring to class
- Students identified students to bring in their own rocks and an egg carton

## Reminders

- Need to dress appropriately for outside next class

## Supplies Needed

- Text: "Science Technology 4: Rocks and Minerals"
  - Worksheet
- Paper

## Homework

- Bring picture of rock formation
- Bring in egg carton

## Notes
### Lesson

- Show class chocolate bars and break them in half  
  → discuss similarities and differences
- Relate different chocolate bars to rocks and minerals  
  → pure chocolate = mineral  
  → chocolate bar with candy coating = rock

*Students read [text]*

- Hand out note to be put in pocket dor future
- Teach: Have students bring in homework (picture of cool rock)  
  → make collage of pictures on bulletin board

### Reminders

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### Supplies Needed

- 2 chocolate bars

### Homework

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### Notes

*Could add Aero bar to show porous vs. not*
Lesson:

- Brainstorm a list of words that can be used to describe rocks.
- Show students pictures of rocks.
- Think of new words we could use to describe.
- Classify words into words describing: color, texture, shape, size. Introduce word "lustre".
- Begin writing words to describe classifying their own rocks.
- Number each (put number in own corner).
- Write description words on small pieces of paper and put papers into own corner.
- If have not done rock casts, use box set to practice as well.

Reminders:

Supplies Needed:
- Chart paper
- Markers
- Rocks
- Pictures
- Text

Homework:

Notes:

- In small groups students take all their rocks and:
  - Use words to describe them.
  - Add new words to list.
  - Show & Tell "cool" rocks, describing them in our words.
### Lesson

- Play game to teach "igneous", "sedimentary" and "metamorphic"
  - Words and definitions scrambled in envelope
  - Small group work to unscramble and match
  - Take up

- Hand out and explain worksheets
- Students work on worksheets
- Take up answers at end of class

- Hand out permission forms for rock walk
  - Explain activity
  - Discuss appropriate wear

### Reminders

### Supplies Needed

- Worksheets
- Permission Forms
- Def. in envelopes

### Homework

### Notes
## Grade 4 Science

**Lesson: 2-6**  
**Unit: Rocks and Minerals**  
**Topic: Rock Books**

### Lesson

- Review  
  - Compare Rocks and Minerals to chocolate boxes
  - Pure = mineral
  - Mixture = rock
  - Igneous = rock formed from molten lava
  - Sedimentary = rock formed from settling at bottom of lake
  - Metamorphic = rock that has changed over time (pressure, heat, time)

- Hand out sheets for rock books
  - Explain how to put together

- Students read book to a partner, then switch and partner reads to them

- When finished, students quiz each other about facts from booklet

Hand out question sheet, needs to be done as HW if not done in class.

### Reminders

- N/A

### Supplies Needed

- Book pages  
- Scissors

- Stapler  
- Question sheet

### Homework

- N/A

### Notes

- N/A
Lesson:

- Review list of descriptive words (class 2-4)
- Have students pull out the rocks they have brought to class
  * have additional sample rock kits as well
- Have students work in small groups to sort their rocks
  by the different categories (color, texture, size, shape, luster)
- Discuss similarities and differences at the end of class
  Allow students to share an explanation of one of their
  "cool" rocks.

Reminders

Supplies Needed

- Describing rocks table
- Rocks

Homework

Notes
### Lesson

- Hand out reading to groups of ~ 4
- → students read through entire package (taking turns as suits <slides>)
- After finished ask class to volunteer a quick re-cap
- Groups then make a dot-dot summary of reading
- Take up dot-jots, put them in order on chart paper on smart board
- & Read summary with students
- Inform them that they will get a copy next class

### Reminders

- Permission Forms

### Supplies Needed

- Reading sheets
- Computer
- Chart paper to take notes

### Homework


### Notes
Lesson: 2-9  Unit: Rocks and Minerals  Topic: Drawing Rocks

Lesson
- Prior to class organize three baskets (igneous, sedimentary, metamorphic) with the rocks listed on the worksheet. Rocks should be in labelled bags.
- Set up 3 stations and divide class amongst them.
- Hand out worksheets.
- Students read through pages, then draw rocks.
- Discuss detail in drawings.
- Rotate every 12-15 minutes.
- Stop students and inform them they have a quiz in about one week.
- Hand out study sheet and discuss ways to study and strategies of studying.

Reminders
- Students need permission forms/appropriate clothing next class.

Supplies Needed
- Specific rocks listed on sheets (in labelled bags and baskets)
- Worksheets
- Review sheet

Homework

Notes
**Lesson:**

- All students need their permission slips.
- Take students to stream.
- Sit down students to discuss rules:
  - Boundaries
  - School rules apply
  - Try to stay dry
  - Can collect rocks, leave all other things
  - Back on 3 whistles
- Students explore stream.
- Bring students back, have them clean and dry their rules.

**Reminders**

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**Supplies Needed**

- Permission Forms
- Cell Phone

**Homework**

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**Notes**

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