

Grade 2 Science

Lesson: 3-11

Unit: Air and Water in the Environment Topic: Work Period

Lesson

- Hand out Folders with all worksheets to date
 - Title Page
 - What Makes Things Move (2 sides)
 - Things that use Energy / Energy Word Search
 - Natural vs Man Made (2 sides)
 - Renewable vs Non Renewable (2 sides)
 - The Wind Cycle (2 sides)
 - The Water Cycle (2 sides)
 - ~~Pl~~Wood Energy (2 sides)
- Write the above list on board
- Students use entire period to complete/organize/color all worksheets
- If Finished students may read.
* Single worksheets in order ^{checked} → initial completed worksheets

Reminders

Supplies Needed

- Extra worksheets
- Notes on chart paper (wind cycle, water cycle, wood energy)

Homework

Notes

Grade 2 Science

Lesson: 3-12

Unit: Air and Water in the Environment

Topic: ~~Water~~ Pinwheel

Lesson

- Today we will make a wind powered toy.
- Put up overhead and read through
- Have students gather supplies
- students may work at own pace
- Discuss safety procedures → scissors, nail
- When students are done they may play with their pinwheels, using their breath and the fan.
- If time, take them outside.
- Provide each student with a extra template, incase pinwheel breaks
- Pinwheels may be taken home

Reminders

Supplies Needed

- | | | |
|-----------------------------|--------------|-----------|
| - Overhead of instructions | - Jumbo wood | - Fan |
| - Templates (2 per student) | - scissors | - googles |
| - Nails | - Hole Punch | |

Homework

Notes

Grade 2 Science

Lesson: 3-13

Unit: Air and Water in the Environment

Topic: Pinwheel - Questions

Lesson

- Explain to students that I will be grading today's paper
- Hand out question sheet
- Read through
- Remind students to take their time
- Collect papers at end of class
- If students finish early they may read
- Stop class early to hand out quiz review sheet

Reminders

Supplies Needed

- Question sheets
- Quiz review

Homework

Notes

Grade 2 Science

Lesson: 3-14

Unit: Air + Water in the Environment

Topic: Review

Lesson

- * After X-mas break lesson
- Talk about break
- Review:
 - How things move - Energy
 - Types of energy that cause movement - Wind, Water etc
 - Things that use wind + water energy
 - Natural vs Man-made
 - Renewable vs Non-Renewable
 - Wind Cycle
 - Water Cycle
 - Wood Energy
- Use remaining time to have students finish pinwheel questions

Reminders

Supplies Needed

- Extra pinwheels

Homework

Notes

Grade 2 Science

Lesson: ¹⁵
3-4

Unit: Air and Water in the Environment

Topic: ^{Quiz}
Whole Period

Lesson

- Review quiz writing
 - no talking to friends
 - no looking at other papers
 - ask for help
- Hand out quizzes and allow whole period
- IF done, encourage students to review their answers.
- Collect quizzes at end

Reminders

Supplies Needed

Quizzes

Homework

Notes

Grade 2 Science

Lesson: 3

16
8
16

Unit: Air + Water in the Environment

Topic: Evaporation and Melting

Lesson

- Take kids outside to get snow
 - Each student puts some snow in small cup
 - Bring snow cups in
 - Discuss melting as students watch their snow melt
 - ~~Handout~~ Explain Activity
 - Core cup with various items (use elastic)
 - let cup sit by window for a week
 - check snow melt water left
 - Handout prediction sheet
 - students predict ~~what~~ how much material will perform
- use 2nd elastic to indicate initial water level*

Reminders

Supplies Needed

- | | | | |
|--------|---------------------|----------------|-----------------|
| - Snow | - Prediction sheets | - Paper towel | - Aluminum foil |
| - cups | - elastics | - Plastic wrap | - Paper bag |
| | | - Wax paper | - Cloth |

Homework

Notes

* May have to re-arrange based on availability of snow

Grade 2 Science

Lesson: ¹⁷3-18

Unit: Air and Water in the Environment

Topic: Describing air and water

Lesson

- "We have learned a lot about air and water, now we need to get into more detail."
- "Today we will be describing air and water."
- Explain that a description should use the 5 senses and knowledge
 - Draw diagram
 - Discuss diagram
- Start with air
- Make a T chart
 - * Air + water may have taste/smell → we are just so used to it.
 - Choose a ~~new~~ part of diagram (i.e. nose)
 - "What does it represent?" (smell)
 - "How do you describe air using smell?"
 - Fill in T chart (Left side = drawing of nose)
(Right side = description)
 - Check off nose on diagram
 - Repeat for all
- Repeat for water.



- * Diagram shows 5 senses
- * Lightbulb represents knowledge

Reminders

Supplies Needed

- Chart paper
- Markers

Homework

Notes

- * Don't need to show T chart from overhead

Grade 2 Science

Lesson: 3-18

Unit: Air and Water in the Environment

Topic: Uses of air and water

Lesson

- Hand out worksheets
- Read through
- Talk about the fact that we have already done the descriptions as a class
- Explain examples ^{for} the "use" section → water = cleaning
air = planes fly
- Students use remaining time to fill in the worksheet
- Worksheets in folder when complete.

Reminders

Supplies Needed

- Worksheet

Homework

Notes

Grade 2 Science

Lesson: 3-19

Unit: Air and Water in the Environment Topic: Evaporation

Lesson

- Discuss that today we will be looking at our cups
- Hand back prediction sheets, students must finish predictions and answer question on melting
- Gather all students around cups and discuss
 - Which do not ~~have~~ appear to have evaporated
 - Which appears to have evaporated the most
 - Discuss quantity evaporated in each set
 - Discuss different water levels (packed snow vs. light snow)
 - Relate to absorption experiment (2-18)
 - all materials that repel show no evap and vice versa
 - didn't test paper bag → do you think it would absorb?
- Collect papers, continue next class. *if extra time discuss error

Reminders

Supplies Needed

- Worksheets (previously worked on)
- Cups with water and covers (from previous lesson)

Homework

Notes

* Make this 1 week after 3-~~19~~16

Grade 2 Science

Lesson: 3-20

Unit: Air and Water in the Environment Topic: Evaporation

Lesson

- Hand back evaporation sheets,
- Students answer 4 questions on back (Review observations first)
- When students finish they submit paper and take a new "Air and Water" sheet
- ~~Students copy Air and Water information from overhead (the info that discussed in 3-17 and 3-18)~~
- Put up overhead of information from 3-17. When students are finished they are to verify that they have all of the information.
- ~~direct all the review~~

Reminders

Supplies Needed

- Evaporation worksheets
- Air and water worksheets
- Air + Water overhead ~~all the info~~
- Projector

Homework

Notes