

Grade 2 Science

Lesson: 3-1

Unit: Air and Water in the Environment

Topic: Title Page

Lesson

- Discuss next unit with students
- Relate to what we have learned (liquids and gases)
- Students brainstorm ideas of pictures that would be good on their title page (out loud as a class)
- Write "Air and Water in the Environment" on board
- Students make a title page with unit title and pictures.

Reminders

Supplies Needed

- Plain Paper

Homework

Notes

Grade 2

Lesson: 3-2

Unit: Air and Water in the Environment

Topic: Energy/Movement

Lesson

- Put pictures on board
- Ask students to try to figure out something that is the same about all of them → they all move
- Discuss movement in each picture
- Discuss how each moves → energy (proper - gravity - energy)
(potential + kinetic)
- Hand out worksheet
- When finished, students exchange sheets
- Take up answers
 - "✓" if correct
 - leave blank if wrong
- Students get their paper back and correct any mistakes
- collect worksheets in folder

Reminders

Supplies Needed

- Movement pictures
- Worksheet

Homework

Notes

* if time, check and initial worksheet if done

Grade 2 Science

Lesson: 3-3

Unit: Air and Water in the Environment

Topic: Energy / Movement

Lesson

- ~~Ex~~ Explain activity to students
 - Walk QUIETLY around school (as a group)
 - Stop at multiple locations
 - While stopped write down anything that is seen moving (or is capable of moving, ie a bike in a bike rack)
 - Return to class ~~Ex~~
- Hand out worksheets
- Go on walk, stopping at 2nd floor window, office/library and large gym.
- Return to class
- Students write down type of energy used to cause movements
- Discuss
- collect worksheets in folder

Reminders

Supplies Needed

- Worksheets

Homework

Notes

* if time check + initial completed worksheets

Grade 2 Science

Lesson: 3-4

Unit: Air and Water in the Environment

Topic: Things that Use Energy

Lesson

- Book computers prior to class
- Take class to computers
- Explain task
 - use Kidpix to draw a picture of something that uses wind or water to create movement
 - use ~ 1/4 of screen to draw
 - Print picture
 - Cut out and glue on worksheet
 - complete worksheet
- Students complete task
- When finished students may work on word search
- Collect work sheets

Reminders

Supplies Needed

- Computers
- Glue
- Worksheets
- Scissors

Homework

Notes

* if time, check and initial completed worksheets

Grade 2 Science

Lesson: 3-5

Unit: Air and Water in the Environment

Topic: Natural vs Man Made

Lesson

- Discuss Things that move chosen last class → determine energy used
- Guide students to classify energy into natural and man made
- ~~Explain concept of~~ Give students the words "Natural" and "Man Made", have them discuss what they think the meaning is and come up with examples - groups of ~4
- Hand out worksheets
 - Start on back, ask questions, students circle answer
 - Take up answers
 - Correct papers
 - Explain front of sheet
 - Complete front
 - Take up answers
- ~~Collect~~ worksheet in folders

Reminders

Supplies Needed

- Worksheets
- Question sheet

Homework

- ~~If time~~

Notes

- If time, check and initial completed sheets

Grade 2 Science

Lesson: 3-6

Unit: Air and Water in the Environment

Topic: Renewable vs Non

Lesson

- How does a car move → gasoline
- What happens to the gasoline after it is used → it is gone
- How does a wind mill spin → wind
- What happens to the wind after it is used → stays
- Discuss the difference and teach "renewable" and "non-renewable"
- Hand out worksheet
- Students work through both sides - colour when finished
- Have students switch papers and take up answers
- Students correct any incorrect answers
- Collect worksheets

Reminders

Supplies Needed

- Worksheets

Homework

Notes

- If time, check and initial completed sheets

Grade 2 Science

Lesson: 3-7

Unit: Air and Water in the Environment Topic: Wind Cycle

Lesson

- Show students fan
- What is it used for? → cooling, moving air
- How does it work? → ~~electricity~~ muscle power to push/pull, electricity spins motor, turning blades, moving air
- Turn on fan
- What else moves air? - wind
- Does wind need muscle power to start? electric power? - No
- Explain wind cycle → Warm air rises (just like smoke)
→ leaves a ~~gap~~ void
→ new air moves in to fill void = wind
- Hand out worksheet
- students do first part - take up
- Put note on board - students copy then do last activity
- ~~collect~~ worksheets in folder - colour if extra time

Reminders .

Supplies Needed

- Fan
- Worksheets
- Note on chart paper

Homework

Notes

- If time, check and initial completed sheets

Grade 2 Science

Lesson: 3-8

Unit: Air and Water in the Environment

Topic: Water Cycle - Video

Lesson

- Review proper behaviour for watching video
- Watch water cycle video (Bill Nye)
- Discuss learning from video.

Reminders

Supplies Needed

- TV
- VCR
- Video - Bill Nye "The Water Cycle"

Homework

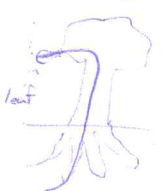
Notes

Grade 2 Science

Lesson: 3-9

Unit: Air and Water in the Environment Topic: Water Cycle

Lesson

- What was topic of video from previous class? → water cycle
- What did we learn about water cycle?
- Discuss water = same water as millions of years ago → Make Path - drink, sweat, evaporate, rain, boardwalks etc.
- Discuss cycling of water
- How does water get to sky → evaporate, green plants (discuss stomata as "plant mouths") draw diagram
- Explain diagrams on worksheet and read words
- Take up diagram 
- Teach precipitation (volunteer student)
- Show note, read note
- Students copy note.
- Students may work on last activity when finished note
- Take up last activity if time (students may colour if finished)
- Collect worksheets

Reminders

Supplies Needed

- Worksheets
- Note

Homework

Notes

- If time, check and initial completed sheets

* ~~precipitation~~

Grade 2 Science

Lesson: 3-10

Unit: Air and Water in the Environment

Topic: Wood Energy

Lesson

- Explain to students that our unit is on air and water, but today we will talk about plants and wood → How does it connect?
 - water for growth, wind carries seeds
- Hand out worksheet
- Students do first page
- Take up answers
- Put note on board
- Students copy note
- When finished note students may get wood cycle pictures to cut out
- Students finish worksheet
- ~~Collect~~ papers in folder

Reminders

Supplies Needed

- Worksheets
- Cut-outs
- Glue
- Note on chart paper
- Scissors

Homework

Notes

* IF time, check and initial completed sheets