

Grade 1 Science

Lesson: 2-11

Unit: Energy in Our Lives Topic: No Electricity

Lesson
<ul style="list-style-type: none">- Talk about camping<ul style="list-style-type: none">→ Allow students to tell stories→ Talk about things you do while camping.→ Talk about different "levels" of camping- Tell students that we are going on a pretend camping trip.<ul style="list-style-type: none">→ We will canoe to our site (Discuss yearly canoe trip)→ Nothing around but wilderness- Have students break into camping groups<ul style="list-style-type: none">→ discuss how they would prepare→ discuss what they would bring- Bring everyone back together to discuss as group- Show and explain worksheet → example: No shower, will we take- Students work for remainder of class ↑ stress replacement concept

Reminders

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Supplies Needed

<ul style="list-style-type: none">- Worksheets- Assessment sheets
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Homework

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Notes

* Conference with students for next class
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trailer
tent
backpack

Grade 1 Science

Lesson: 2-12

Unit: Energy in Our Lives

Topic: Energy at Home

Lesson

- Tell students ~~that~~ "Now that you are experts at energy, it is time to look at energy ⁱⁿ ~~at~~ your ^{home} ~~house~~".
- Explain that they will take home a little booklet and work with their parents to fill in the information.
- Go through booklet and explain each section
- Allow students to ask questions
- Use remainder of period to work on worksheet from ~~last~~ ^{previous} classes (camp)

Review all

- energy
- saves
- output

Reminders

- Booklets

Supplies Needed

Homework

Notes

~~Homework and children's follow up access~~

Grade 1 Science

Lesson: 2-13 Unit: Energy in our Lives Topic: Plants Using Sun

Lesson

- Ask class what plants need to grow and stay healthy
 - write words on chart paper (sun, water, soil)
- Explain that as a class we will be experimenting with plants
 - One plant will be put near window
 - One plant will be put in dark
 - Both plants will need to be watered every day.
- Show students plants, watering cup, ~~no~~ watering instructions
- Review watering instructions - stress that both plants need to be watered
 - need to keep everything the same except the sun (good scientific practise)
- Hand out plants booklet → explain that we will only do one or two pages ^{at a time}
- Students do title page and 1st drawings

Reminders

- Hand out and explain quiz review

Supplies Needed

- 2 "identical" plants (per class)
- Watering cup
- Watering instructions
- Booklets
- Quiz Review

Homework

~~Homework~~

Notes

* put your date in agenda
"conference"

Grade 1 Science

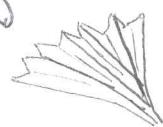
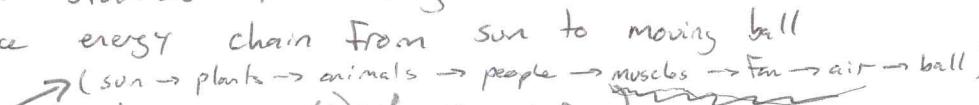
Lesson: 2-14

Unit: Energy in Our Lives

Topic: Energy to Move Things

At end of class review all your questions

Lesson

- Give each student a piece of construction paper
- Demonstrate how to fold the paper into a fan 
- Ask students "What does ~~a~~ a fan do?" (cools you down)
- "How does it work?" ~~→~~ * Don't take answer, just say let's experiment
- Give students time to play with fans.
- Discuss the fan moving air
- Challenge students to find things they can move with their fan (using the air)
- Put small (light) ball  on table
- Show students fan moving ball
- Trace energy chain from sun to moving ball


Chart, one student per word

Reminders

- ~~Test~~ next class

Supplies Needed

- Construction paper
- Small ball
- Stapler

Homework

Notes

- Game
- sit across from partner → use fan to push ball towards partner
 - Relay race

Ask question "Who does sun give energy to" → plants

→ student who answers keeps answering that word

Ash next question "Who do plants give energy to" → animals

Recap Sun gives energy to plants, Plants give energy to animals
 point at student #1) point at student #2

Continue Plant, Animals, People, muscles, fan, air, ball

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Lesson: 2-¹⁵/₄₈

Unit: Energy in Our Lives

Topic: Quiz / Work Read

Lesson

- Ask students how their plant are doing
- Inform students that today they will do their quick quiz with me
- When they are not doing quiz they need to be finishing work
 - science then other then reading.

Reminders

Supplies Needed

-Quizzes

Homework

Notes

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Quizzes

Lesson: 2-16

Unit: Energy in Our Lives

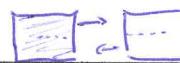
Topic: Plants need Sun II / After 5
of sun 1/2 hr

Lesson

- Ask students to get plants and bring them together
- Discuss appearance of each (compare and contrast)
- Have students fill in next page of their booklets
 - * remember to circle smiley
 - * use lots of color detail
- ~~Supplies needed for this lesson~~
- Explain that the sun's light does more than just help plants grow
- Explain activities → Today we will put a cup of water near sunlight and one away from sunlight
 - We will also tape paper on window, half covered, half exposed.
 - We will then see what happens
- Do both

quiz
while
doing
this

Reminders

- Same amount of water in each cup
- paper   → 

Supplies Needed

- Construction paper (2 pieces)
- 2 cups of water

- Q12

Homework

Notes

Grade 1 Science

Lesson: 2-~~17~~

Unit: Energy in Our Lives

Quizzes
Topic: People Using Energy

Lesson

- Review how people get energy → by eating
- Review the term "energy output" → What energy is used to do
- Discuss that humans use their energy to create movement most of the time, but can also use energy to do other things → use their senses.
- Show and explain worksheet
- Hand out worksheet ~~at~~
- Students work
- Take up.

} quiz while
students work
* Try to be done
all quizzes by
today

Reminders

Supplies Needed

- Worksheets
- Quiz

Homework

Notes

Grade 1 Science

Lesson: 2-18

Unit: Energy in Our Lives

Topic: Manual Toys

Lesson

- Display a variety of manually operated toys on a table
- Have student volunteers show how toys work
- Ask students "What would be the instructions for working this toy?"
"What is the same about all of these toys?" - need muscle to make them work
"Which would you most like to play with? Why?"
- Put two signs on the desk "Push" and "Pull"
- Have students volunteer answers to sort toys into the categories
- Have students volunteer examples of other toys that would fit into the two categories → Discuss
- Explain that when people use their energy through their muscles they either push or pull
- Hand out cutouts and explain activity → cut out pictures, sort pictures ~~into~~ by how they work, glue on paper when done
- Conference with kids as they work

*why is it important to sort?

Reminders

Supplies Needed

- Push / Pull Signs
- Toys (ball, car,
- Cut outs
- Paper

Homework

- * Bring a wind-up toy next class ← Put in agenda
- * Bring cereal box or similar cardboard ←

Notes

~~Plants~~ "After 2 weeks"
- pull out plants
- discuss
- draw

Grade 1 Science

Lessons

2-19

Unit: Energy in Our Lives

Topic: Wind-up Toys

Lesson

- Have students pull out their wind-up toys (~~Have to check if forgot~~)
- Have a student volunteer to show their toy work.
 - Discuss what happened
- Ask what else you need to wind up to make work (music box, clock etc)
- Have small groups explore their toy
- When done, ask students to explain how they think the toys work
- Explain that winding a toy adds energy to it, then when you let go the energy is released *stores energy, like we store food energy
- Explain that we are going to do an experiment with our toys
 - Count how many times we wind toy
 - Measure how far it travels (use blocks) & count them
- Hand out worksheets
- Students perform activity in pairs

Next Class

Reminders

- Bring wind-up toy if you forgot

Supplies Needed

- Extra wind-up toys

Homework

- Bring cardboard

Notes

Did not go well, so as a demonstration.

Grade 1 Science

Lesson: 2-1 ²⁰

Unit: Energy in Our Lives

Topic: Wind-up Toy ^{Demo} ~~experiment~~

Lesson

See previous LP.

IF done early make a graph with class

- Explain that we will do an experiment with a wind-up toy
 - count how many times we wind it
 - measure how far it travels (use blocks and count them)
- Hand out worksheet (on back of manual toy sheet)
- Perform activity with student volunteers helping
- Remind students to bring cardboard
- Discuss results → more energy input = more output
 - too much could break, like too much food makes fat

Reminders

* Arrange adult volunteers for 2-23

Supplies Needed

- Worksheets
- Extra wind up toys

Homework

* Bring Cardboard

Notes