

Energy Homework

Topic: Energy (electricity, light, sound...)

School: St Nicholas Primary School
Age Range: Level B – Link intake of food to movement
Level C – Energy conversion
Level D – Breakdown of food into a usable form

Name of Teacher: S Hopkinson

Description:

Children asked to find different food labels or packaging that have the measurement kJ.

Locate the homework:

The energy source for the body is the food we eat. Food is a source of chemical energy that is then converted into other energy forms. Record energy content of different foods; which foods have high energy content; food diary; burning peanut experiment.

School: St Nicholas Primary School
Age Range: Level C & D
Name of Teacher: S Hopkinson

Description:

Find an item that needs some form of energy to work. The item must be small enough to fit inside a sandwich bag.

Locate the Homework:

Transfer of Energy

Energy changes – introduce pupils to concept of energy changes using simple picture format – falling up – potential → kinetic

Pupils use items they have brought in – pupils identify the starting and finishing energy forms. Energy transfer equation.

School: Whitdale Primary
Age Range: P1
Name of Teacher: Eileen Watson

Description:

The children were given an instruction sheet and parents' letter. They briefly discussed some of the materials they would have at home that could be used for the project. They were sent off to complete the project with no further guidance.

Locate the Homework:

Previous experience

The children had discussed sources of heat, light and sound. They used catalogues to identify things which produce heat, light or sound.

Follow-up activity

Show and tell session, classification of objects produced for homework.

Topic: Energy - Light

School: Torbain Primary School

Age Range: P6-7

Name of Teacher: Susan Tollick

Description:

At home look around for things that give out light. It must not use mains electricity. Bring your object into school when we will test them to see if they do give out light.

Locate the Homework:

Preparatory learning

Class lesson – look for /discuss examples of sources of light in school and at home.

Make collage of pictures of these, either drawn or cut out from magazines. Discuss why we need light sources.

Follow-up:

In a dark room test objects to see if they do give out light, and discuss findings.

School: Murrayfield Primary School

Age Range: P6

Name of Teacher: Judith Whyler

Description:

Looking at series circuits. Pupils were asked to draw a creature, cut out the eyes

School: Knightsridge Primary School

Age Range: P5

Name of Teacher: Wilma Missenden

Description:

Supplied 2 small pieces of mirror. Use those and “junk” to make a device to see around corners.

Locate the Homework:

Class lessons on mirrors/reflections. Childs toy periscope was available to use/study in class.

School: Knightsridge Primary School

Age Range: P5

Name of Teacher: Wilma Missenden

Description:

Use materials found at home to make a string telephone. Be creative! You can use wool, thread, string, wire etc and metal cans, plastic pots etc as the ‘phones’, or any other

suitable material. You are aiming to communicate effectively between two rooms/2 areas of a room. Which materials are most effective?

Locate the Homework:

level C – Materials/Vibration/Sound. Class lesson/discussion re materials which could be used, homework task, fair testing of telephones in class – group work then class work to decide which most effective.

School: Knightsridge Primary School

Age Range: P5

Name of Teacher: Wilma Missenden

Description:

Make a musical instrument using junk from home. The instrument will need to create sound, and you should be able to describe how the sound is made. (How are vibrations created?)

Locate the Homework:

Level C Vibration produces sound

Class lesson demonstrating vibration – sound using piano, drum, and guitar.

Homework:

Show and tell of instruments

School: Torbain Primary School

Age Range: P2

Name of Teacher: Susan Tollick

Description:

Make a string telephone, using items you have at home. The telephones you make will be tested in class to see how well they work

Locate the Homework:

Class lesson beforehand to discuss sound energy, ‘observe’ vibrations and ways to ‘catch sound’.

Homework activity – allowed children to tell each other about their telephones and how they were made. Children also able to try out each other’s telephones. Investigated whether they worked best when string is loose or taut. Discussed ideas about how to test telephones/fair test – tested in groups, completed simple report sheet.

School: Knightsridge Primary School

Age Range: P5

Name of Teacher: Wilma Missenden

Topic: Energy – light and Sound

Description:

Reflections around the home – investigate reflective surfaces in and around home, drawing simple pictures of the reflections obtained.

Locate the Homework:

Discuss reflections made and the surfaces that made them (spoons, taps, windows etc).