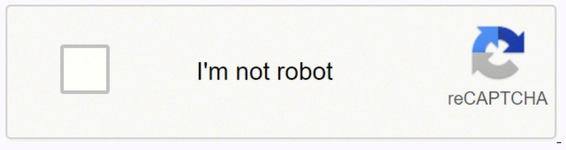

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Force and energy worksheets for clas

Type of energy	Description
Kinetic	Energy stored by stretched or compressed objects.
Elastic potential	Energy carried by tiny moving electrical charges often through a wire.
Light	Energy carried by a kind of vibration that can travel through the air.
Electrical	Energy carried by any moving object.
Chemical	Energy that can warm us up.
Sound	Energy that comes from the Sun or a light bulb and we can see it to see, using our eyes.
Heat	Energy stored by being high up or being moved higher up.
Gravitational potential	Energy stored in a fuel, for example petrol or in a battery.

POTENTIAL AND KINETIC ENERGY

Name _____

Potential energy is stored energy due to position. Kinetic energy is energy that depends on mass and velocity (movement).

Potential Energy = Weight x Height (P.E. = w x h)
Kinetic Energy = $^1/_2$ Mass x Velocity^2 (K.E. = $^1/_2mv^2$)
The units used are: Energy = joules
Weight = newtons
Height = meters
Mass = kilograms
Velocity = m/s

For a closed system, the sum of the potential energy and the kinetic energy is a constant. As the potential energy decreases, the kinetic energy increases.

Solve the following problems.

1. What is the potential energy of a rock that weighs 100 newtons that is sitting on top of a hill 300 meters high?

   Answer: _____

2. What is the kinetic energy of a bicycle with a mass of 14 kg traveling at a velocity of 3 m/s?

   Answer: _____

3. A flower pot weighing 3 newtons is sitting on a windowsill 30 meters from the ground. Is the energy of the flower pot potential or kinetic? How many joules is this?

   Answers: _____ _____

4. When the flower pot in Problem 3 is only 10 meters from the ground, what is its potential energy?

   Answer: _____

5. How much of the total energy in Problems 3 and 4 has been transformed to kinetic energy?

   Answer: _____

6. A 1200 kg automobile is traveling at a velocity of 100 m/s. Is its energy potential or kinetic? How much energy does it possess?

   Answers: _____ _____

Chapter 5: Work, Energy and Power

Teacher: Kenneth O'Rourke Subject: Physical Science
Dates: 1-02-06 to 1-7-06 Time: 9 to 12 days Topic: Work/Energy
Grade: 9 inclusion classroom
Note: Intelligences- Linguistic, logical math, spatial, kinesthetic, musical, interpersonal, intrapersonal, naturalist.
Per. Standards- active learning, coherence, critical/creative thinking, real world connections, reflection, fosters understanding of content

Vocabulary- Energy, energy transformation, heat, joule, potential energy, kinetic energy, work, power, law of conservation of energy

Objectives:
Students will be able to:
- Calculate the work done by a simple machine 1-3, lab 5-1
- Calculate the potential and kinetic energy 1-5 to 1-11
- Apply the law of conservation of energy as it applies to force and distance in simple machines 1-5
- Calculate power in machines1-4
- Calculate the efficiency of a machine 1-4
- Apply the law of conservation of energy as it applies to perpetual motion machines 1-12

Learning topic one: Work ***Monday 1-2***
1) Bell Ringer
2) Work is the application of a force over a distance
3) W=Fd
4) Practice worksheets for the formula
5) Bowling ball vs Basketball work demonstration. I demonstrate the work formula by lifting a bowling a distance- calculate the work (force times distance) the force is the weight of the ball (kilograms) times 9.8 m/s/s. I then do the same for the basketball. The idea is that they will associate lifting the bowling ball as doing more work than lifting a basketball, and our calculations will support that.
6) Formative assessment cards for the lesson

Learning topic two: Power ***Wednesday 1-4***
1) Bell ringer
2) Power is the speed at which work is done
3) P= Work/time
4) Power worksheets
5) Power demonstration, winch with a large cylinder winch, and a small cylinder winch. The same work done faster has more power. Students will then brainstorm examples of different power machines.
6) Formative assessment cards for the lesson-

Work, Power and Energy Worksheet

Work and Power

1. Calculate the work done by a 47 N force pushing a pencil 0.26 m.

2. Calculate the work done by a 47 N force pushing a 0.025 kg pencil 0.25 m against a force of 23 N.

3. Calculate the work done by a 2.4 N force pushing a 400. g sandwich across a table 0.75 m wide.

4. How far can a mother push a 20.0 kg baby carriage, using a force of 62.0 N at an angle of 30.0° to the horizontal, if she can do 2920 J of work?

5. How much work is it to lift a 20. kg sack of potatoes vertically 6.5 m?

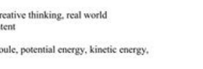
6. If a small motor does 520. J of work to move a toy car 260. m, what force does it exert?

7. A girl pushes her little brother on his sled with a force of 300. N for 750. m. How much work is this if the force of friction acting on the sled is (a) 200. N, (b) 300. N?

8. A 75.0 kg man pushes on a 5.0 x 10^3 **ton** wall for 250 s but it does not move. How much work does he do on the wall? (2000 lb = 1 ton; 0.454 kg = 1 lb)

9. A boy on a bicycle drags a wagon full of newspapers at 0.800 m/s for 30.0 min using a force of 40.0 N. How much work has the boy done?

Consider a 10 kg mass sitting on the ramp shown to the right. Use the following diagram for questions 10 and 11.



10. If it takes 25 N to slide the box up the ramp, how much work will it take to slide the box up?

11. Instead of sliding, how much work will it take to lift the box to the top of the ramp?

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12. How much power does it take to lift 30.0 N 10.0 m high in 5.00 s?

13. How much power does it take to lift 30.0 kg 10.0 m high in 5.00 s?

14. You move a 25 N object 5.0 meters. How much work did you do?

15. You carry a 20. N bag of dog food up a 6.0 m flight of stairs. How much work was done?

16. You push down on a 3.0 N box for 10. minutes. How much work was done?

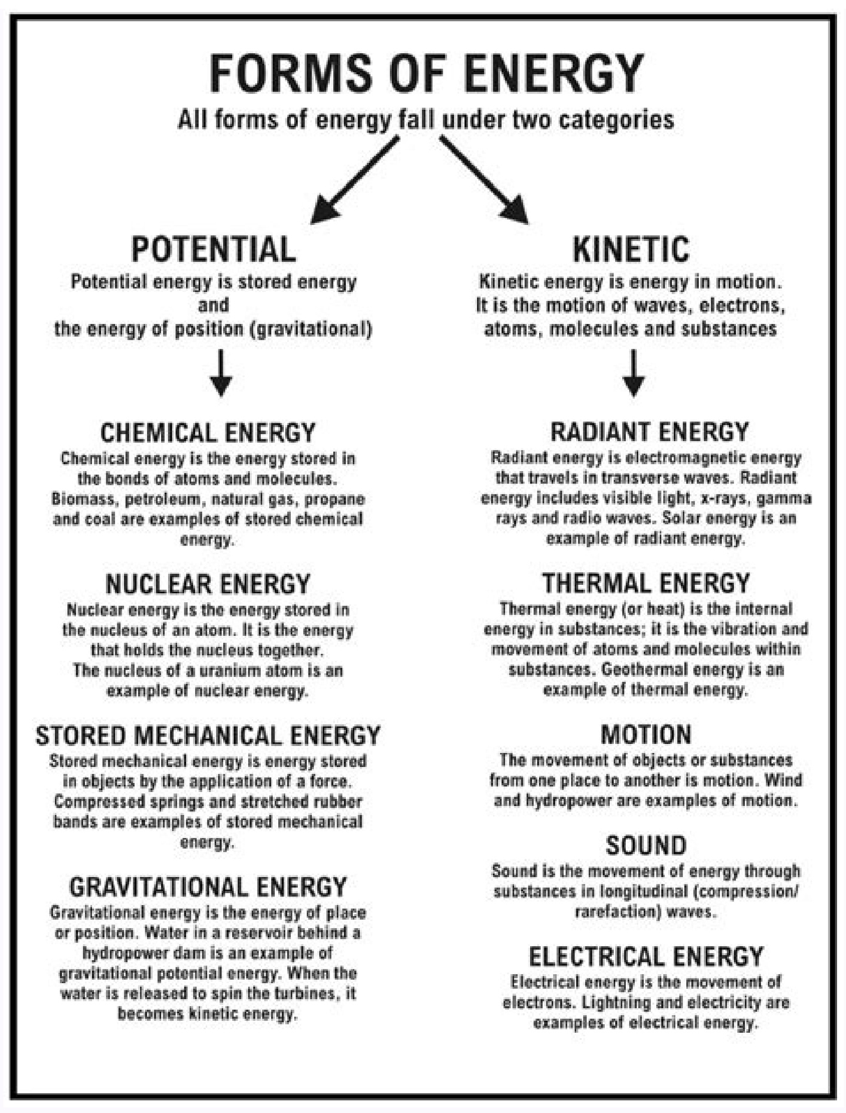
17. You use 35 J of energy to move a 7.0 N object. How far did you move it?

18. You do 45 J of work in 3.0 seconds. How much power do you use?

19. A car uses 2,500 Joules in 25 seconds. Find power.

20. A 60. watt light bulb runs for 5.0 seconds. How much energy does it use?

21. How much work can a 22 kW car engine do in 60. s if it is 100% efficient?



Force work and energy worksheets for class 5. Force and energy worksheets for class 5.

Term I and term II. (v) Wind energy can be used to generate electricity. Standard 4 students should practice questions and answers here reported here for science capable of 4 that will help you improve your knowledge of all the important chapters and its topics. (iii) If a moving object stops, it means that some forces act on it. Science is inexplicably linked to our lives and helps us understand the world that surrounds us better. Complete The Following Rentance by Insertert Suitable Words from the Box: Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, Ã, ã, ã, force, movement, Energy, Source, Work, Does, Petrol (i) Energy is Needed to Perform _________. Â «II) The ability to do the job is called _________. (vi) a carriage driver _________ work. (iii) The energy source in a car is _________. (v) The Sun is the main _________ energy. (i) Fake (ii) True (III) True (IV) True (V) True III. To select the participants who will be present in the program Pariksha PE Charcha ... Write true or false of the following statement: (i) things can move without any strength acting on them. (Ii) Energy is necessary to work. It is well accepted that the reading of alphabetization is not ... (i) thermal energy (ii) light energy (iii) electricity (iv) only fourth laboratory worksheet on force, work and energy on the home page Read and download the free PDF of CBSE worksheet and worksheet of the force of the class scientific force 4. This Decision was taken due to the uncertainty deriving from the Covid Pandemic 19. IV. II. Scientific and technological developments contribute to progress and help improve our standard standards. (vii) The force is applied to change the management of _________ of a body. Answers: I. Ministry of Education (MOE), the Government inavoig inavoig i rep ovitta otnemidnerppa'lled iter i eraidutS(mayawS emoc otuicsonoc etnemralopop ¨Ã ehc)SCOOM(itrepa enilno isroc imrone erirffo rep amrofattaip anu otaicnal ah Menti) on 9 July 2017. Name of the following: (i) Energy Get Burning Fuels (II) Energy plants use to make food (III) Energy we use to run a fan (IV) our main source of energy; It gives us answers of heat and light energy for the current worksheet, the work and energy are given below. This quiz paper with questions and answers for Grade 4 science will be very helpful for exams and help you score a good MarksClass 4 science worksheet for the workforce and the EnergyCBSE Class 4 worksheet Class 4 – Strength, Work and Energy – Practice the worksheets for CBSE students. Term I ... (i) Pull, Push (II) Gravity (III) Work (IV) Fuel (V) Friction II. Class 4 science students and teachers can get free printable worksheets for Class 4 science in PDF format prepared according to the most recent curriculum and exam template in your schools. Engaging with this topic, students learn to think, solve ... Ncert now offers online courses for current worksheet, work and energy contains various kinds of questions. Fill in the blanks: (i) A force is a _________ or a _________. (ii) The force of _________ pulls everything down. (III) When a force moves an object, _________ is done. (IV) Coal and gasoline have energy stored in them. (iv) We apply _________ pushing and pulling. III. They are called _________. (V) A moving football stops after some time due to the force of _________. Students should also download free PDF sheets of science sheets of class 4 prepared by school teachers according to the latest data from NCert, CBSE, KVS Books and Syllabus have released this academic year and solves important problems provided here with solutions on a daily basis and Work and Energy Class 4 Science Worksheet PDFClass 4 Sciences Students must refer to the following PDF printable worksheet for the workforce and energy in standard 4. (IV) Energy in food is indirectly from the sun. 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