Forms of energy worksheet

4th grade science · Physical Science

Name _____ Date _____

For grown-ups: 10 questions from our forms of energy practice, easier ones first. Read a question aloud if your child wants that, then check together with the answer key on page 2. Circle one answer for each problem.

1. **Where do plants get their energy?**

   ○ The moon ○ Sunlight ○ Rocks

2. **Rub your hands together fast. What do you feel?**

   ○ Heat ○ Cold ○ Nothing

3. **Energy is what makes things move, light up, heat up or make sound.**

   ○ Yes ○ No

4. **A ball rolling down a hill has ___ energy.**

   ○ Light ○ Sound ○ Motion

5. **Light travels in straight lines.**

   ○ Yes ○ No

6. **A battery stores energy. When you turn on a toy, the energy becomes ___.**

   ○ Water ○ Food

   ○ Motion, light or sound

7. **A toaster turns electrical energy mostly into ___.**

   ○ Heat ○ Sound ○ Wind

8. **Sound is made by ___.**

   ○ Gravity ○ Vibrations ○ Light

9. **A wind turbine turns ___ energy into electricity.**

   ○ Light ○ Motion, from moving air

   ○ Sound

10. **When you turn on a light bulb, some energy also becomes heat.**

    ○ Yes ○ No

Answer key: Forms of energy

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1. **Sunlight**
   Plants capture light energy from the sun and use it to make their food.
2. **Heat**
   Rubbing makes friction, and friction turns motion energy into heat energy. Your hands warm up.
3. **Yes**
   True! Energy is the ability to make things happen: motion, light, heat and sound are all forms of energy.
4. **Motion**
   Anything that is moving has motion energy, also called kinetic energy.
5. **Yes**
   True! Light travels in straight lines. That is why a flashlight cannot shine around a corner, and why things make shadows.
6. **Motion, light or sound**
   The battery's stored energy changes into motion, light or sound, depending on what the toy does.
7. **Heat**
   A toaster turns electricity into heat. The glowing wires also give off a little light.
8. **Vibrations**
   Sound is made when something vibrates, or shakes back and forth very fast. The vibrations travel through the air to your ears.
9. **Motion, from moving air**
   Moving air pushes the blades. That motion energy is changed into electrical energy.
10. **Yes**
    True! A bulb makes light, but some energy turns into heat. That is why bulbs feel warm.