It’s About Time

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<table>
<thead>
<tr>
<th>Fountas &amp; Pinnell</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading Recovery</td>
<td>17</td>
</tr>
<tr>
<td>DRA</td>
<td>18</td>
</tr>
</tbody>
</table>

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Table of Contents

Knowing What Time It Is .......... 4
Using the Sun ..................... 5
Using Fire and Water .......... 8
Clocks of Today ................. 11
Make Your Own Water Clock . . . 15
Glossary ......................... 16
Index ............................. 16

Knowing What Time It Is

Do you know what time it is?
If you do, you probably are looking
at a clock or watch.
Using the Sun

Long ago, people didn’t have clocks or watches like you do. When the sun rose, they got up, and when the sun went down, they went to bed. They told time by the position of the sun in the sky.

People discovered that they could use a stick and the sun to tell time. This was called a shadow clock. They put a stick in the ground, pointing straight up. The direction of the stick’s shadow and how long or short it was told them the time.
A better kind of shadow clock was called a **sundial**. Sundials had a pointer and a base. The pointer cast a shadow on marks around the base. People could tell time by reading the marks.

But shadow clocks were not good for telling time on cloudy days—or at night.

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Using Fire and Water

One kind of clock that didn’t need the sun was a **water clock**. A water clock was a container with a tiny hole in the bottom. Water would steadily drip out of the hole. Marks on the inside of the container showed the time. It took one hour for the water to go down one mark.

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Sundials made telling time using shadows more accurate.

A modern water clock
Another kind of clock that didn’t need the sun was a candle clock. You would know the time by how much of the candle had melted. The candle had marks down its side to show the hours.

Sometimes people used candle clocks as alarm clocks. They put a nail in the candle at the time they wanted to wake up, hanging a shoe on the nail. When the candle melted down, the nail fell out and the shoe hit the floor with a BANG!
Clocks of Today

Now there are all kinds of timepieces, from tall **grandfather clocks** to watches we wear on our wrists. Most clocks run on **electricity** from batteries.

Many clocks have two hands that point to numbers in a circle on the clock face. These are called **analog clocks**. Other clocks don’t have hands, only numbers. These are called **digital clocks**.
There are many more types of clocks, too. Clocks hang in and on buildings. Clocks adorn wrists and mantles. Clocks are everywhere!

Inside one kind of analog clock is a carved bird called a **cuckoo**. Every hour, the door opens and the bird pops out and sings its song: **cuckoo, cuckoo, cuckoo!**

At noon, a cuckoo clock cuckoos 12 times.
Glossary

analog (adj.)  using hands and dials to show time on a clock (p. 12)
candle  burning candle marked with the hours (p. 9)
clock (n.)  the hours (p. 9)
cuckoo (n.)  carved bird used in a cuckoo clock (p. 13)
digital (adj.)  using a row of numbers, rather than hands on a dial (p. 12)
electricity (n.)  power source for clocks and watches (p. 11)
grandfather clocks (n.)  tall, fancy clocks that chime with the time (p. 11)
shadow clock (n.)  clock that uses an object’s shadow to tell time (p. 11)

Try This

Make a Water Clock

You will need:
• a partner
• a large plastic bottle with the top cut off
• two paper cups
• a clock with a second hand
• a pin or tack, masking tape, and water

1 Stick a piece of masking tape along the outside of the bottle, from top to bottom.
2 Poke a small hole with a pin or tack in the bottom center of one cup. Fit the cup snugly into the top of the bottle.
3 Have your partner use the other cup to pour water into the cup with the hole while you start timing right away. Keep the water clock’s cup about halfway full.
4 Every 30 seconds, mark the water level on the tape.

Index

alarm clock, 10
batteries, 11
Big Ben, 12
candle, 9, 10
digital, 12
electricity, 11
grandfather clocks, 11

Index

hands, 12
shadow, 6, 7
sun, 5, 6
water, 8, 15