



## Teacher's Guide

The Learn All Day Clock™ is the unique time-teaching tool that makes lessons about telling time easier for teachers and more fun for students!

The Learn All Day Clock is two clocks in one! It's a working **ANALOG** and **DIGITAL** clock and an *easy-to-use* **DEMONSTRATION** and **TEACHING** clock, perfect for whole-class, small-group, and one-to-one lessons. The 14" analog clock is synchronized to an illuminated digital clock that provides easy visibility from anywhere in the classroom. Special features on the back of the clock allow you to advance the clock to the times you want to teach—quickly and easily!



# Special Features

## ANALOG CLOCK

Easy-to-read, color-coded **HOURLY** and **MINUTE** hands

**MINUTE MARKINGS** in 1- and 5-minute increments

Clear plastic **COVER** protects hour and minute hands.

**front**



## DIGITAL CLOCK

The **DIGITAL DISPLAY** is synchronized to the analog clock for round-the-clock learning.

Bright yellow 1" **DIGITAL NUMERALS** make clock easy to read from around the room.

## MODE SWITCH

- Slide switch to the left to use clock in **WORKING MODE**.
- Slide switch to the right to use clock in **DEMO MODE**.

## TIME SET KNOB

- Turn this knob to set the clock's time.
- Turn it to the first stop and the hands move slowly.
  - Turn it to the second stop and the hands magically accelerate to a faster speed.

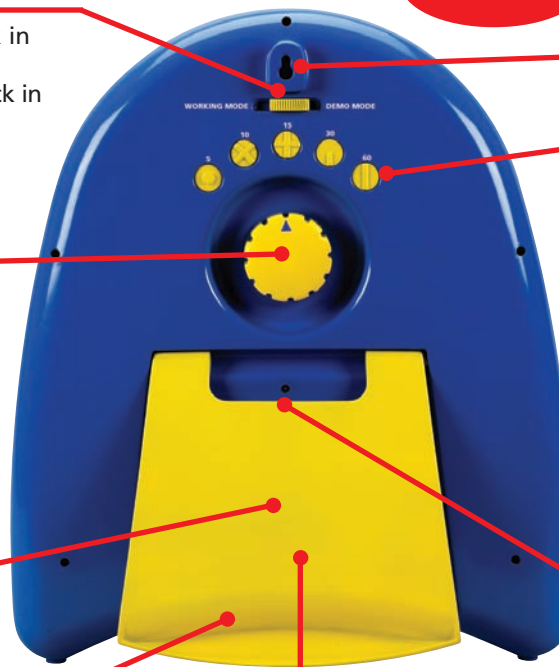
## RESET BUTTON

(behind the stand)  
Press to synchronize the digital and analog times to 12:00.

## STAND

Pull out the hinged stand to place clock on table or shelf.

**back**



**KEYHOLE** for hanging the clock on the wall

## TIME JUMP BUTTONS

- Press any of the five buttons to automatically advance the clock in 5-, 10-, 15-, 30-, and 60-minute increments.
- This feature is available only when clock is in **DEMO MODE**.

## AC ADAPTER JACK

The special AC to AC ADAPTER enables the clock to keep extremely accurate time and preserves batteries while the clock is in **WORKING MODE**.

## BATTERY COMPARTMENT

(behind the stand)  
Holds four (4) C batteries (not included). Using batteries allows freedom of movement during classroom demonstrations.

# Getting Started

## Powering Up the Clock

Before you start using the Learn All Day Clock, install four (4) C batteries (not included) in the battery compartment or plug in the AC adapter (see page 8). Once powered, the analog and digital displays will automatically synchronize to 12:00.



## Setting the Correct Time

1. Slide the MODE SWITCH to WORKING MODE.



2. Turn the TIME SET KNOB to set the time.

• Turn it to the **left** to advance the time.



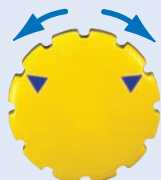
• Turn it to the **right** to turn back the time.



**The TIME SET KNOB has two stops in either direction.**



Turn it to the first stop to change the time slowly.



Turn it to the second stop to change the time more quickly.



3. As you near the correct time, turn the TIME SET KNOB back to the center position. The hands stop moving. If necessary, adjust the time using the first stop on the knob.

## Power Loss

If the Learn All Day Clock loses power completely, repeat the Setting the Correct Time procedure to reset the clock to the correct time. As long as it has power, the Learn All Day Clock will continue to keep accurate time to the minute.

## Displaying the Clock

When you are not using the Learn All Day Clock for demonstrations and lessons, set the clock to WORKING MODE and place it on a table or bookcase or hang it on the wall. The clock provides students with constant reinforcement every time they glance at the synchronized analog/digital display. It's like having a "time tutor" in your class—all day long!



# Demonstration Clock Mode

Use the Learn All Day Clock in DEMO MODE to demonstrate or reinforce time-telling skills. The clock features two ways to select the time you want to teach.

- 1 Set the time MANUALLY by turning the TIME SET KNOB.
- 2 Set the time AUTOMATICALLY by pressing any of the five TIME JUMP BUTTONS to advance the time in 5-, 10-, 15-, 30-, and 60-minute intervals.



## Setting the Time MANUALLY

1. Slide the MODE SWITCH to DEMO MODE.
2. If batteries are installed, disconnect the AC adapter. This allows you to move around the room, using the clock anywhere in the classroom.
3. Set the time you want to teach by turning the TIME SET KNOB (see page 3, steps 2-3).



With the TIME SET KNOB **pushed in**, students can see the synchronization of the analog and digital time as you turn the knob.



4. To check how well students can read analog time, set the time with the TIME SET KNOB **pulled out**. This turns off the digital display and allows the teacher to ask, "What time is it?"



To display the digital time, **push in** the TIME SET KNOB.



While using the Learn All Day Clock in DEMO MODE, the analog and digital display may lose synchronization. If this happens, press the RESET BUTTON located under the stand on the back of the clock. Pressing the button will resynchronize the clocks to 12:00 in both DEMO and WORKING MODES. Then use the TIME SET KNOB to set the clock to the correct time.

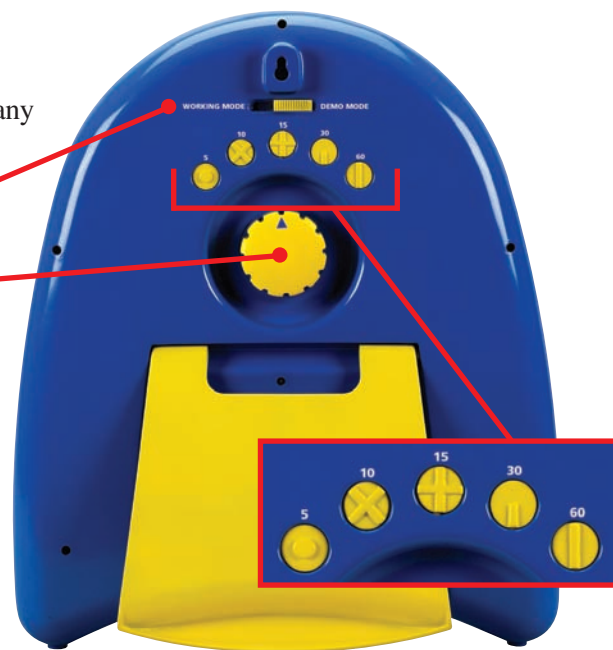
## Setting the Time **AUTOMATICALLY**

Advance the Learn All Day Clock quickly and easily by pressing any of the five **TIME JUMP BUTTONS** on the back of the clock.

1. Slide the **MODE SWITCH** to **DEMO MODE**.
2. Set a starting time (for example, 8:00) by turning the **TIME SET KNOB** (see page 3, steps 2-3).
3. Press any of the five **TIME JUMP BUTTONS** to automatically advance the time.

To demonstrate the synchronization of the analog and digital times, leave the **TIME SET KNOB pushed in**.

To check how well students can read analog time, **pull out** the **TIME SET KNOB** before pressing a **TIME JUMP BUTTON**. This turns off the digital display. Reveal the digital time by pressing in the **TIME SET KNOB**.



Set the clock to a starting time (for example, 8:00).



Press this button to advance the clock in **5-minute increments**.



Press this button to advance the clock in **10-minute increments**.



Press this button to advance the clock in **15-minute increments**.



Press this button to advance the clock in **30-minute increments**.



Press this button to advance the clock in **60-minute increments**.



## The Learn All Day Clock remembers what time it is!

When you are finished teaching a lesson in **DEMO MODE**, simply return the clock to **WORKING MODE** and plug the AC adapter into the wall. The clock immediately returns to the correct time. There's no need for you to reset the clock every time you give a demonstration.



# Classroom Activities

## Teaching Time on the Hour

Begin the lesson with a discussion about clocks and time. Slide the MODE SWITCH to WORKING MODE for this part of the lesson.

### Suggested Discussion Questions

1. What does a clock do?
2. Where can you find clocks at school? At home?
3. How do clocks help us?
4. What time do you get up? Come to school? Eat lunch? Eat dinner? Go to bed?
5. How many hands on a clock?
6. What colors are the hands on the Learn All Day Clock?
7. Which hand is the hour hand? *red* The minute hand? *blue*
8. What do the big numbers around the clock face mean? The small numbers?



### Suggested Demonstration Activities

1. Slide the MODE SWITCH to DEMO MODE.
2. **Pull out** the TIME SET KNOB.
3. Set the time to 12:00 (see figure 1). Discuss where the hour and minute hands point.
4. Now **push in** the TIME SET KNOB to display the digital time (see figure 2). Discuss how both the clock and the numbers on the digital display show the same time.
5. **Pull out** the TIME SET KNOB, and then press the 60-minute TIME JUMP BUTTON. The clock advances to 1:00 (see figure 3). Discuss where the hour and minute hands are pointing. Ask students what time it is. **Push in** the TIME SET KNOB to display the time (see figure 4).
6. Continue advancing the time, one hour at a time, until you have introduced every hour on the hour.
7. Now randomly choose times to test student time-telling skills:
  - **Pull out** the TIME SET KNOB to turn off the digital display.
  - Select an on-the-hour time (for example, 1:00) and advance to that time using the 60-minute TIME JUMP BUTTON.
  - Using worksheet #1, have each student copy the red hour and blue minute hand onto the first clock of the worksheet as shown on the Learn All Day Clock.
  - Ask students to name the time.
  - **Push in** the knob to display the digital time.
  - Have students write this time on their worksheet clocks.
8. Continue randomly choosing on-the-hour times, having students draw the hour and minute hands on their worksheets, and naming the time. As students get more proficient at telling time on the hour, have them write the digital time on the activity sheet's clock BEFORE you reveal it on the Learn All Day Clock.



figure 1



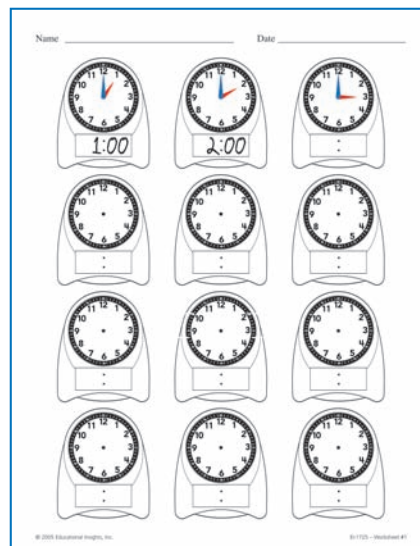
figure 2



figure 3



figure 4



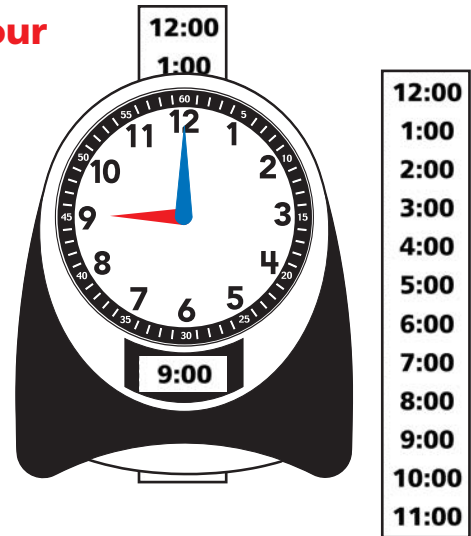
## Teaching Time on the Half-hour and Quarter-hour

Follow the same demonstration suggestions described on page 6, steps 1-8, demonstrating these time increments using the appropriate TIME JUMP BUTTONS to advance the time.

## Clock and "Time Strip" Worksheets

Use worksheets #2 and #3 as additional reinforcement for introductory lessons or for at-home practice. After putting together the large clock (worksheet #2), students insert the "time strips" (worksheet #3) into the clock's digital display for analog and digital practice.

1. Students color the hands on the clock (worksheet #2) and attach them to the clock face with a brad. Place the minute hand on top.
2. Cut the slits on the clock's digital display.
3. Slide any of the six "time strips" (worksheet #3) through the slit to display a digital time.
4. Students move the hour and minute hands to display the corresponding analog time. Time Strips provide reinforcement on the hour, half-hour, quarter-hour, and in 5- and 10-minute increments.

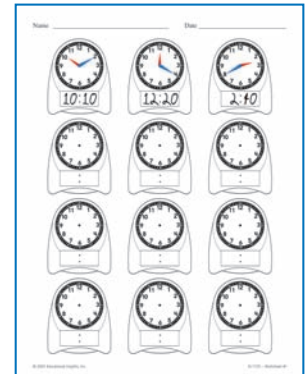


### Make Your Own

You can also create your own "time strips" to correlate with lessons. Students can also make their own for customized practice sessions.

## Teaching Time in 10-minute Increments

Begin the lesson by having students count by 10s to 60. Then, starting on the hour, use the 10-minute TIME JUMP BUTTON to move the clock ahead. At each stop, say the time (2:10, 2:20, 2:30, 2:40, and 2:50). Explain that when you reach 60 minutes, the time changes to the next hour because there are 60 minutes in an hour. Use worksheet #1 for interactive lesson participation (page 6, steps 7 and 8) as you randomly move the clock to various 10-minute increment times (10:10, 12:20, 2:40, 6:50, and so on).



## Teaching Time in 5-minute Increments

Have students count by 5s to 60. Then, starting on the hour, use the 5-minute TIME JUMP BUTTON to move the clock ahead. At each 5-minute stop, say the time (8:05, 8:10, 8:15, 8:20, and so on). Use worksheet #1 for interactive lesson participation as you randomly move the clock to various 5-minute increment times (8:25, 9:05, 9:35, 10:15, 10:40, and so on).

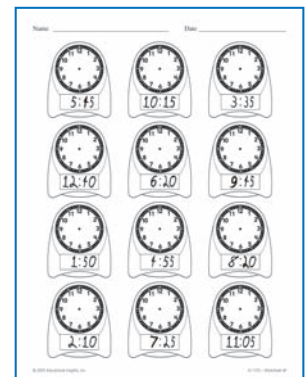
## Teaching Time in 1-minute Increments

Set the clock on the hour (for example, 8:00). Using the TIME SET KNOB, count around the clock by ones, moving the minute hand as you do. This reinforces that there are 60 minutes in the hour by having students count by 1s to 60 (2:01, 2:02, 2:03, and so on). Explain that when you reach 60, the time changes to the next hour. Use worksheet #1 for interactive lesson participation.

## Make-Your-Own Worksheets

Make your own custom worksheets using worksheet #1. Photocopy the blank worksheet, filling in either the analog clock or the digital time. These make perfect test or homework pages.

- Fill in analog clocks. Students complete the digital time.
- Fill in digital times. Students draw in the correct analog time.
- Provide mixed practice by leaving blank some analog and some digital clocks.



# Powering the Learn All Day Clock

When the Learn All Day Clock is in WORKING MODE use the AC adapter to power the clock. The special AC to AC adapter enables the clock to keep time very accurately. However, when the clock is in DEMO MODE, the AC adapter can be disconnected (allowing the batteries to power the clock), freeing the teacher to move about the classroom during the lesson.

When you slide the MODE SWITCH back to WORKING mode, the digital display will blink to remind you to plug the AC adapter back in. To conserve batteries, the Learn All Day Clock has a “sleep mode.” After five minutes of no user interaction, the digital display flashes dim/bright for five minutes. Then the display turns off. Simply plug the clock into the AC adapter to turn on the digital display.

## Using the AC Adapter

### Instructions for use:

1. Insert the end of the AC Adapter cord into the AC adapter jack on the back of the clock.
2. Plug the AC adapter body into an electrical socket.
  - Only the special AC to AC adapter included with it should be used with the Learn All Day Clock. The AC power it provides to the clock helps it keep time very accurately.
  - The AC adapter should be examined regularly for damage to the cord, plug, enclosure, and other parts.
  - In the event of damage, do not use the AC adapter until the damage has been repaired.
  - The Learn All Day Clock is not intended for use by children under three (3) years old.
  - The AC adapter is not a toy.



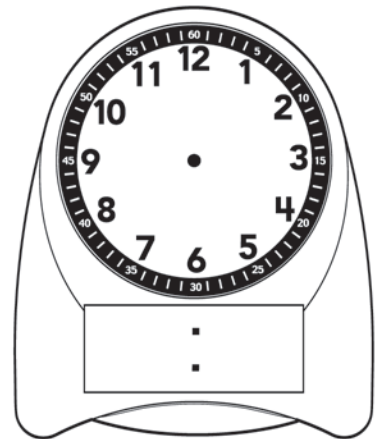
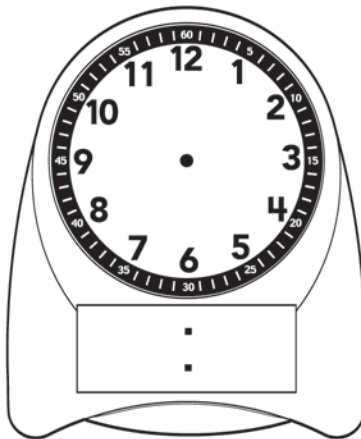
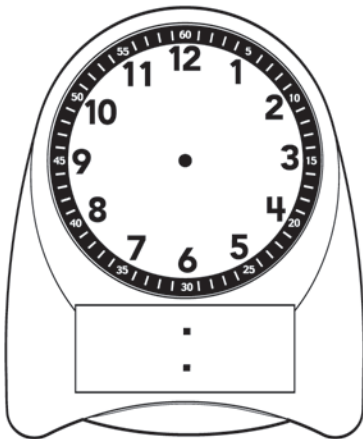
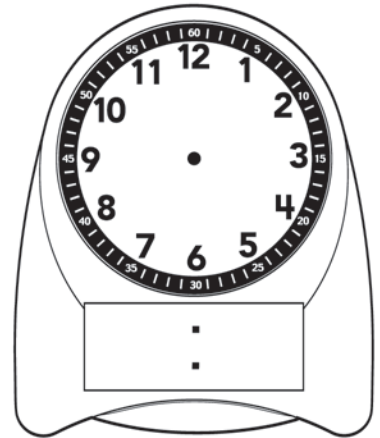
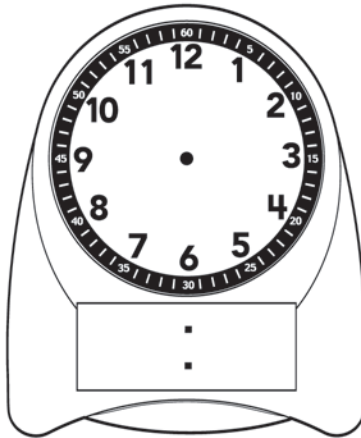
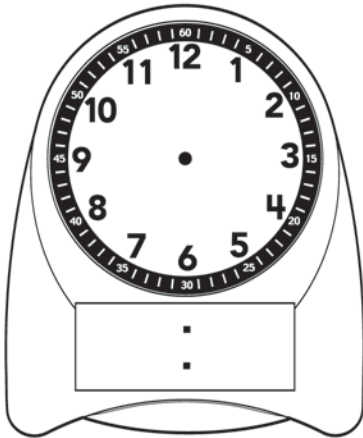
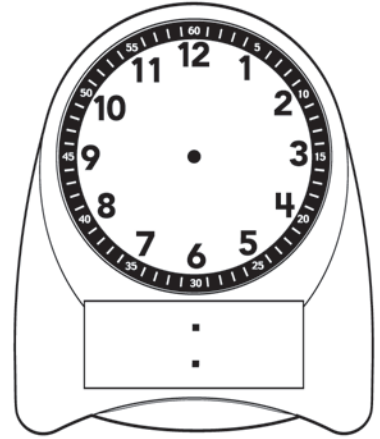
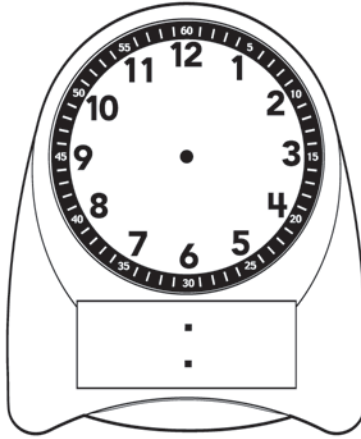
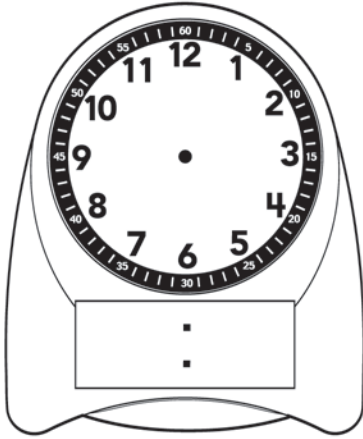
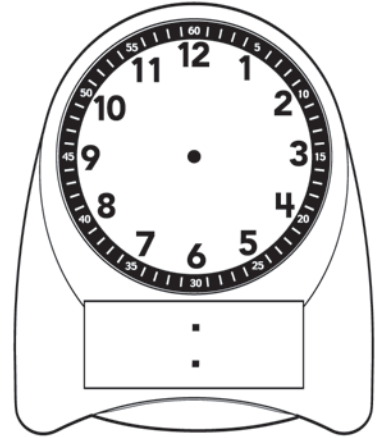
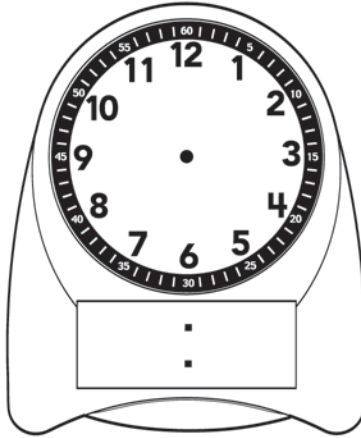
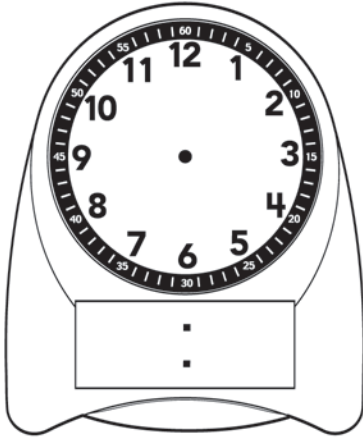
## Battery Operation

Use batteries to power the Learn All Day Clock in DEMO MODE when you want the flexibility to move around the room.

1. Carefully open the battery compartment door (located on the back of the unit) by using a coin or screwdriver to remove the screw from the battery compartment.
2. Install four (4) fresh C batteries in the battery compartment, carefully following the diagram showing correct battery installation. This diagram is found inside the battery compartment.
  - Batteries must be inserted with the correct polarity.
  - Do not mix old and new batteries. Do not mix different types of batteries: alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
  - Remove exhausted batteries from the unit.
  - The supply terminals must not be short-circuited.
  - Non-rechargeable batteries must not be recharged.
  - Do not use rechargeable batteries.
  - Only batteries of the same or equivalent type as recommended are to be used.
3. Close the battery compartment door and tighten the screw.

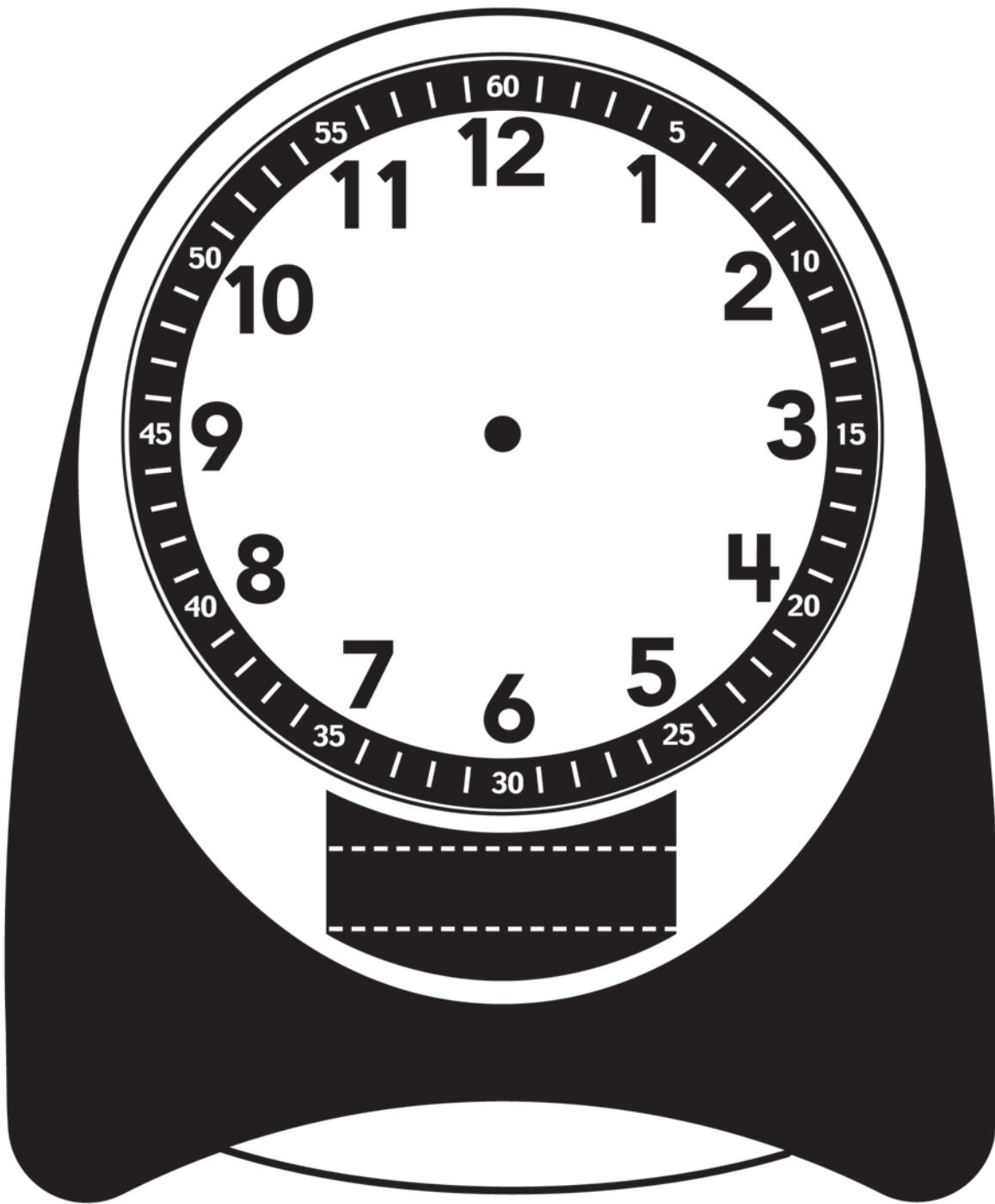
Name \_\_\_\_\_

Date \_\_\_\_\_



Name \_\_\_\_\_

Date \_\_\_\_\_



The short hand on the clock is the **HOUR** hand.

The long hand on the clock is the **MINUTE** hand.

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Color the **MINUTE** hand blue.

Color the **HOUR** hand red.



Use these “Time Strips” with the clock activity sheet.

- Cut apart each strip.
- Slide one of the strips through the slot on the clock’s digital display.
- Move the hands on the clock to match the digital display.

(on the hour)

12:00  
1:00  
2:00  
3:00  
4:00  
5:00  
6:00  
7:00  
8:00  
9:00  
10:00  
11:00

(on the half-hour)

12:30  
1:30  
2:30  
3:30  
4:30  
5:30  
6:30  
7:30  
8:30  
9:30  
10:30  
11:30

(on the quarter-hour)

12:15  
12:45  
1:15  
1:45  
2:15  
2:45  
3:15  
3:45  
4:15  
4:45  
5:15  
5:45

(on the quarter-hour)

6:15  
6:45  
7:15  
7:45  
8:15  
8:45  
9:15  
9:45  
10:15  
10:45  
11:15  
11:45

(10-minute increments)

12:10  
3:20  
6:40  
9:50  
5:20  
10:10  
2:40  
8:50  
1:20  
7:40  
4:10  
11:50

(5-minute increments)

12:05  
3:25  
5:35  
8:55  
1:25  
4:05  
7:55  
11:35  
2:55  
9:05  
6:35  
10:25