



DETROIT PUBLIC SCHOOLS

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Welcome to DPS!

Parents,

This year will be an exciting, as well as challenging year for your Detroit Public Schools (DPS) children. Learning with **enthusiasm** is what we desire for all of our students. The goal of DPS staff, along with parent involvement is to prepare our children with the mindset that “I will excel because I CAN.”

Our target for this effort is “*Telling Time*” with a clock face from the measurement strand of the Michigan Mathematics Grade Level Content Expectations.

After reviewing our past *MEAP scores*, 31 percent of all third grade students were not able to successfully *tell time* using the traditional clock face. We welcome parents and community leaders to share in the learning experience by using the attached *Homework Craft Kit*.

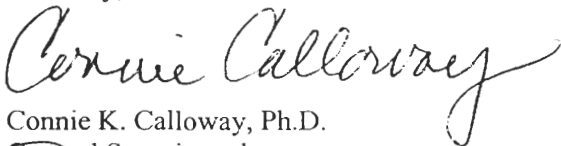
Below are *key concept vocabulary* words that you may review with your child to help them comprehend telling time:

- analog
- hours
- minutes
- seconds
- 5 minute intervals
- a.m.
- p.m.
- position of minute hand
- position of hour hand
- quarter to the hour

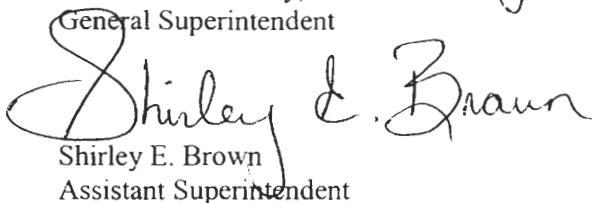
This Homework Craft Kit contains MEAP like questions and a hands-on activity that will provide your child with additional practice supported from home. This is the first of many efforts to include you and other adults in your child’s education outside of the classroom. If you have any *questions* please contact Daisye Mays at the office of Curriculum and Instruction at 313-873-7598.

With the support of parents and other adults in our children’s lives, we will reach our goal of “Accountability + Added-Value = Achievement” for all students.

Sincerely,



Connie K. Calloway, Ph.D.
General Superintendent



Shirley E. Brown
Assistant Superintendent

/gogh/seb
Attachment

Objective: Students will be able to tell time and solve time problems.

Key Vocabulary and Concepts	analog, hours, minutes, seconds, 5-minute intervals, a.m., p.m., position of minute hand, position of hour hand, and quarter to the hour.
Definitions	Analog clock - A clock or watch that represents time by position on a dial. It usually has a circular scale of 12 hours, 60-minutes and or if it has a second hand scale of 60 seconds. Today, most analog clocks and watches use the 12-hour dial, on which the hour hand (shorter and sometimes thicker) rotates once every 12 hours, and twice in a day.
	Hour - An hour is a unit of time 60 minutes in length.
	Minutes - A minute is a unit of measurement of time 60 seconds in length.
	Seconds - The second sometimes abbreviated sec. , is the name of a unit of time.
	5-minute intervals –An interval is the amount of specified time between events. In this case the specified time is 5-minutes. For instance, the following represents 5-minute intervals 12:00 p.m., 12:05 p.m., 12:10 p.m., and 12:15 p.m.
	a.m., p.m. -The 12-hour clock is a timekeeping convention in which the 24 hours of the day are divided into two periods called <i>ante meridiem</i> (a.m. , Latin "before noon") and <i>post meridiem</i> (p.m. , "after noon"). Children only need to know that a.m. refers to morning and p.m. after noon.
	Position of minute hand – The minute-hand moves every 60 seconds and there are 5-minutes between each number on the clock.
	Position of hour hand - The hour hand makes 1 complete revolution, 360°, in a day. The more familiar 12-hour clock (and watch) dial shows 12 hours of the day at a time, and the hour hand makes two complete revolutions in a day.
Quarter to the hour – The minute hand is pointing to the 9, which is referred to as a quarter to the hour.	

MEAP Released Items

This item appeared on the MEAP Fall 2007

1. Which clock appears to show a time of 4:50?

A.



B.



C.



This item appeared on the MEAP Fall 2007

2. Erika began eating dinner at 6:15. She finished eating at 6:40.



How long did it take Erika to eat dinner?

A. 35 minutes

B. 30 minutes

C. 25 minutes

This item appeared on the MEAP Fall 2006

3. What time appears to be shown on this clock?



- A. eight minutes to 7
- B. twenty minutes to 7
- C. twenty minutes to 6

This item appeared on the MEAP Fall 2006

4. What time appears to be shown on this clock?



- A. three past three
- B. three-fifteen
- C. three-thirty

This item appeared on the MEAP Fall 2006

5. Which best represents the time shown on the clock below?



- A. 8:20 a.m.
- B. 8:40 a.m.
- C. 9:20 a.m.

This item appeared on the MEAP Fall 2006

6. It is 3:15 p.m. and Adam has a violin lesson in half an hour. At what time does Adam have his violin lesson?



- A. 2:45 p.m.
- B. 3:30 p.m.
- C. 3:45 p.m.

This item appeared on the MEAP Fall 2006

7. What time will it be 15 minutes after 2:10 a.m.?



- A. 2:15 a.m.
- B. 2:25 a.m.
- C. 5:10 p.m.

This item appeared on the MEAP Fall 2006

8. It is now 11:25 a.m. Doug has a spelling test in 20 minutes. When is Doug's spelling test?



- A. 11:20 p.m.
- B. 11:45 a.m.
- C. 12:20 a.m.

This item appeared on the MEAP Fall 2005

9. What time does the clock show?



- A. seven
- B. seven-thirty
- C. seven thirty-eight

This item appeared on the MEAP Fall 2005

10. What time in the morning is shown on the clock below?



- A. 6:55 a.m.
- B. 11:07 a.m.
- C. 11:35 a.m.

Answer Key

- 1. A
- 2. C
- 3. B
- 4. B
- 5. A
- 6. C
- 7. B
- 8. B
- 9. C
- 10. C

Our goal is for students to be able to make a clock, tell time, state time in multiple ways and answer MEAP like test questions. The following questions can be used to guide discussion and provide practice.

- 1) Where should the minute hand be placed to demonstrate 2:15?

- 2) You and your parent started reading your favorite bedtime story at 7:15. What time would show on the clock after you and your parent read for 25 minutes?

- 3) Where should the minute hand and the hour hand be placed to demonstrate a quarter to 3:00?

- 4) It is now 5:20 p.m. and dinner will be served in 15 minutes. What time will dinner be served?

- 5) Nicky and her big sister baked cookies for 15 minutes. The clock now shows that it is "five minutes before six." At what time did the sisters start baking the cookies?

Clock Craft

Make a simple paper clock that you can use to practice telling time.

Supplies Needed

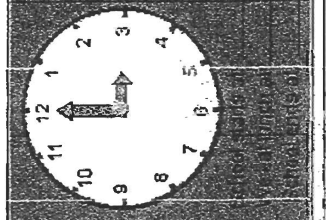
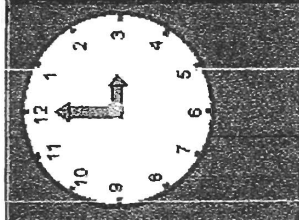
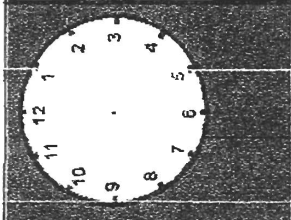
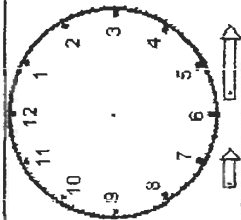
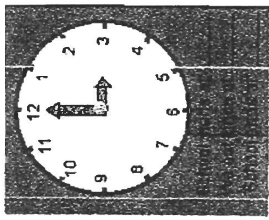
- Pencil
- Paper (white plus two colors of construction paper)
- Glue
- Scissors
- A brass paper fastener

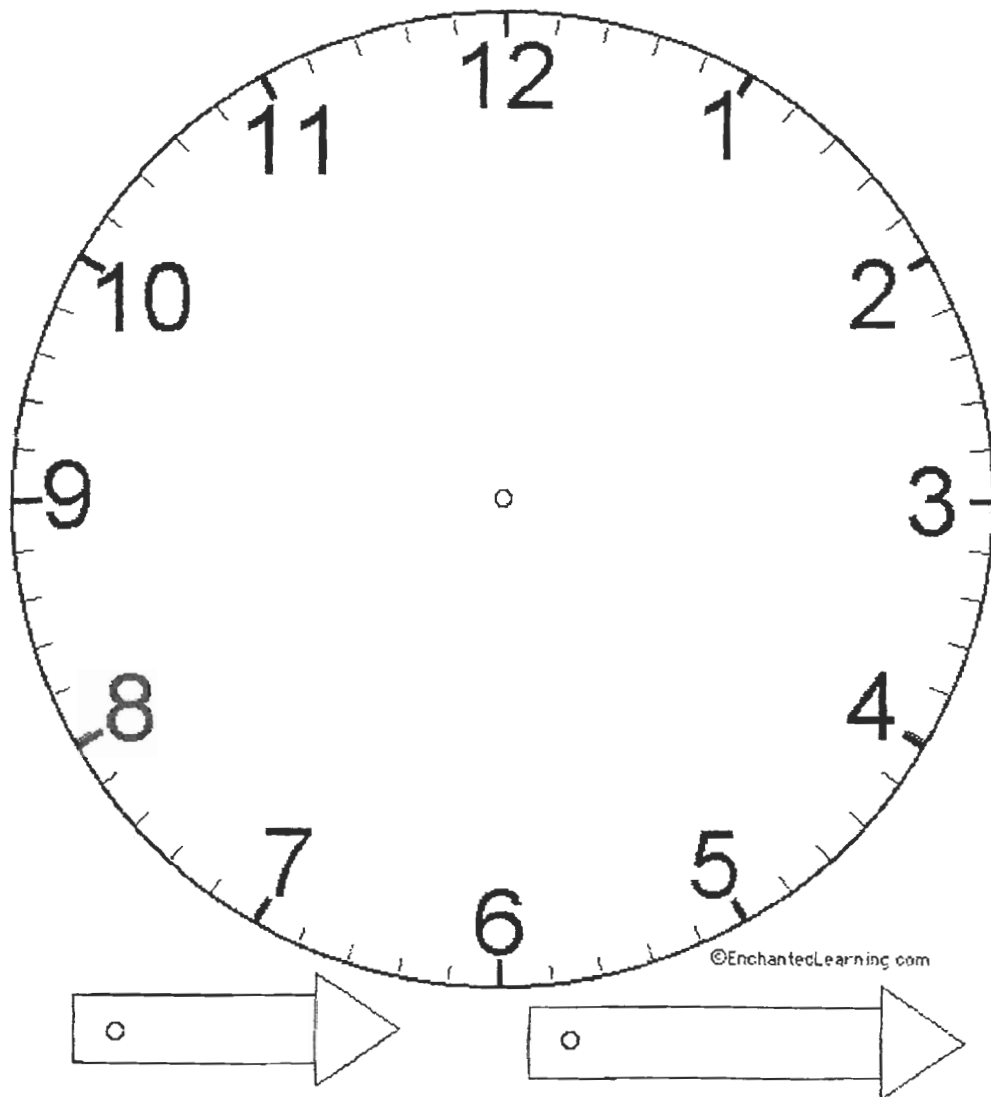
Cut out the clock face and hands.

Glue the clock face onto a piece of colored construction paper. Either color the clock hands (using markers or crayons) or use the hands you cut out to trace a set of hands on colored construction paper (then cut them out).

Make a small hole in the center of the clock's face and one in each of the clock's hands. Using the brass paper fastener, attach the clock's hands to the clock.

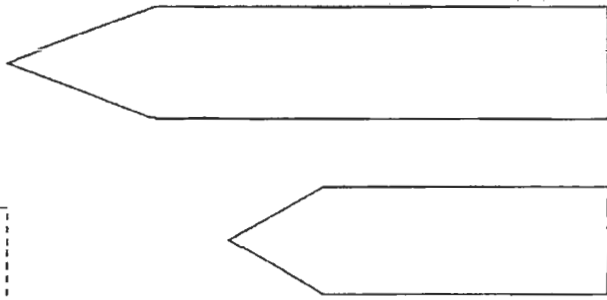
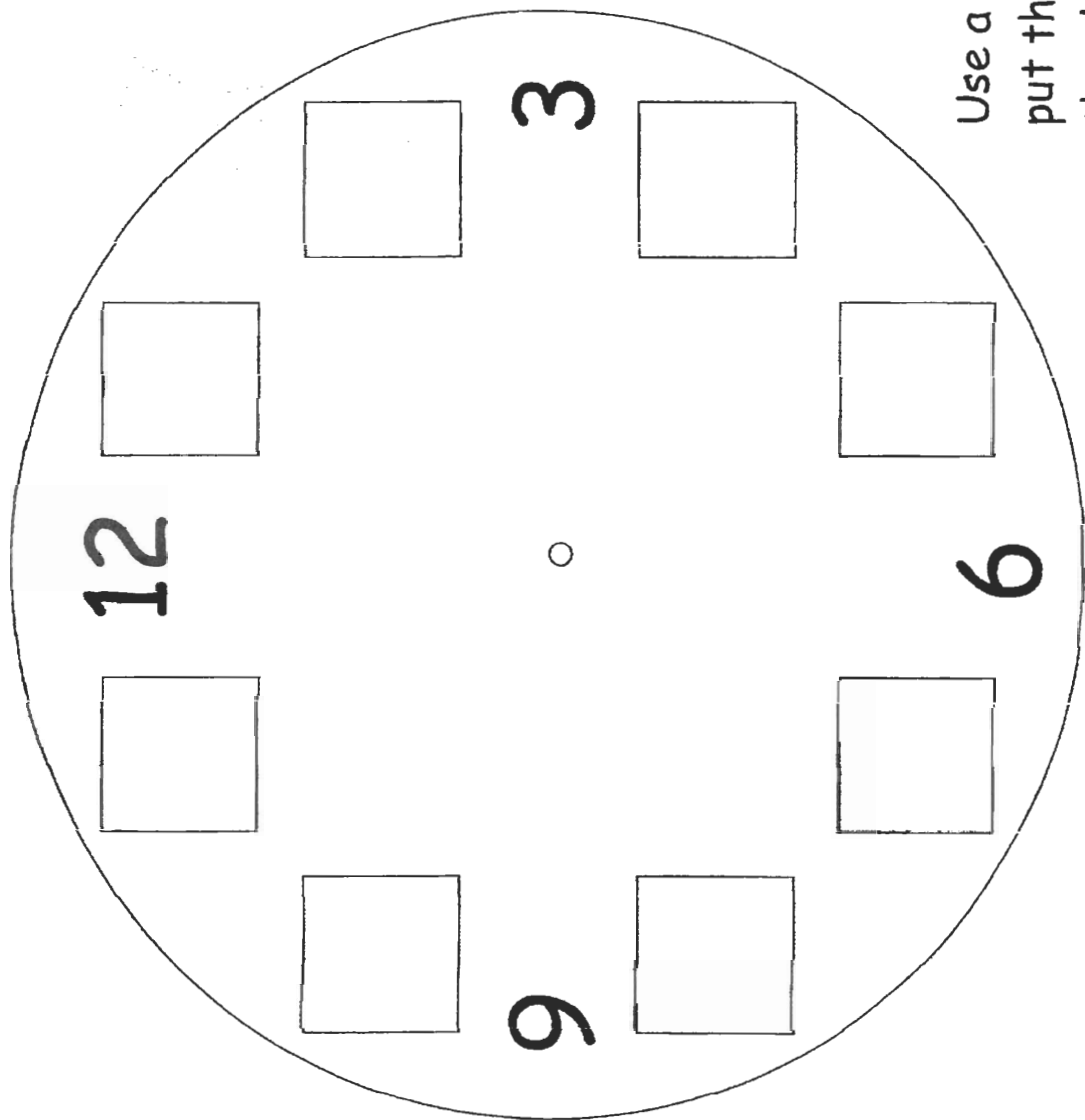
You can now use this clock to practice telling time. You can write down the times that you do certain things during the day and adjust the clock's hands to match each of these times. Some fun times include the start of school, lunch time, recess, when school lets out, bedtime, and the time of day when the child was born.





Make a Clock Face

1	2	4
5	7	8
10	11	



Use a split pin to put the hands on the clock.