

## First Floor

### Time Pieces

The heart of a museum is its collection. Artifacts, a term for objects made or used by humans, are the foundation for many of the exhibits throughout the Museum. At the core of the Museum is a three-story central atrium with a shadow-box wall of artifacts. On the first floor, you will see what kinds of things the Museum has collected over the years.

Compare the objects in the first case, "Times Past," with the objects in the last case, "Only Yesterday." Now let's examine some of the differences and similarities:

What materials are the artifacts made of (note that animal and plant collections are referred to as specimens)? Give examples from each display.

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How were the objects, including the specimens, used? Take your best guess, and give examples.

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What kinds of things are you interested in collecting? \_\_\_\_\_ Should they be in a museum? \_\_\_\_\_ Why or why not? \_\_\_\_\_

### Seasons of Southwest Michigan

(near the Planetarium)

Choose one of the exhibits: Tornado, Aeolian Landscape, Fluvial Storm, Tectonic Basin, Confused Sea, or Lightning Tube. Describe what's going on in the exhibit you chose:

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## Second Floor

### Science in Motion

#### ENERGY

*Light Up Your Life:* Which appliance requires the most energy to work? \_\_\_\_\_  
 How many amps are needed for it? \_\_\_\_\_

*Build and Race Wheels:* What is the key to designing the fastest wheel? \_\_\_\_\_  
 What makes a slower wheel? \_\_\_\_\_

*Light Show:* Turn on one light at a time, placing the blue block under each light. What happens to the color of the block under the red light? \_\_\_\_\_ ; the yellow light? \_\_\_\_\_ ; the blue light? \_\_\_\_\_  
 \_\_\_\_\_. Now, turn on all the lights at the same time - what happens when all three colors blend?

#### HUMAN BODY

*Heart Beat:* Stand or sit down in front of the giant heart. Relax; calm down. Now place your hands lightly on the bar over the metal strips. What is your resting heart rate? \_\_\_\_\_ Next, go up and down the steps behind you 4 or 5 times. Go back to the giant heart and place your hands lightly on the bar. What is your heart rate now? \_\_\_\_\_  
 What is your target heart rate for a good work out? (hint: find the chart in the flip book next to the steps.)

*Quick Catch:* With a partner, follow the directions on page 1 in the flip book. According to the chart on page 2, how good is your reaction time? \_\_\_\_\_

#### TECHNOLOGY

*Levers:* What are the three important parts of a lever? \_\_\_\_\_  
 How is your arm similar to a third class lever? (hint: what part of a lever could be compared to your elbow?)

## Science in Motion (continued)

*Pulleys:* Pull each ring attached to a weight - pull it so the weight goes all the way up. Which is the easiest to pull? Circle one: Left Middle Right Which is the hardest? \_\_\_\_\_ What distances do you have to pull the rings to get each weight all the way up? Left \_\_\_\_\_ Middle \_\_\_\_\_ Right \_\_\_\_\_. Which has the shortest rope? \_\_\_\_\_ Which has the longest rope? \_\_\_\_\_ Would you rather spend your energy (force) moving the longer distance or lifting more weight? \_\_\_\_\_

And now, for some history in your serving of science.....

Go to the *History of Scientific Discoveries* wall nearest the *Human Body* area. Can you find the information about Jane Goodall? What did she study? (hint - look in the row of turning blocks labeled "Perception of Mind")

Go to the *History of Scientific Discoveries* wall nearest the levers and pulleys. What metal was once considered more valuable than gold? (hint - look in the row of turning blocks labeled "Materials.") \_\_\_\_\_

## Kalamazoo Direct to You

### INTRODUCTION

Why is the big yellow car in this exhibit? \_\_\_\_\_

Find the following paragraph in a book located near the Checker Cab: "They were on their way home to Timbuctoo. And they had just left the town of Kalamazoo." What kind of transportation is the book talking about?

Find the items that were made to be used in the snow. What are they? \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_. (hint: there should be at least three things)

*Founding:* Study the map with the puzzle pieces shaped like buildings. How did the settlers (the people who came after the Native Americans) cross the Kalamazoo River? \_\_\_\_\_

*Settlement:* Name some reasons why, in the early 1800s, people from eastern states found this area a good place to settle down? \_\_\_\_\_

What 4 items shown here were used by early surveyors to map the area we now call Kalamazoo? \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

What did surveyors do with the compass and chain? \_\_\_\_\_

How long is the chain? \_\_\_\_\_

How many chains equal one mile? \_\_\_\_\_

Notice the "river" on the floor, representing the Kalamazoo River. As you explore the history gallery, find three facts about our river: \_\_\_\_\_

### THE THINGS WE MADE

*Paper Industry:* What ingredient was used to make the first **Kalamazoo** paper products? (hint: turn the big paper roll to find out) \_\_\_\_\_

*Working Women/Men at Work:* Pick up the old-fashioned phone receiver and plug in to listen. How much money did Nona Parker earn at the playing card factory? \_\_\_\_\_

How much did Floyd Dingill earn working in the foundry? \_\_\_\_\_

*Piece by Piece:* Assemble a fishing reel by yourself. Now, set the timer. How many can you complete before it stops? \_\_\_\_\_ Next, try working in a team of two, three, or four. How many reels can your team produce after setting the timer? \_\_\_\_\_ In which situation would you be able to earn the most money?

# Kalamazoo Direct to You (continued)

*Music:* Whose guitar is making a guest appearance" at the KVM? \_\_\_\_\_

What other instruments does this person play? (hint: go to the Sound Stage to find out)

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*Medicine:* Find the Teddy Bear in the bed. What does this bed do that yours doesn't? \_\_\_\_\_

\_\_\_\_\_

*A.M. Todd:* Name two products that use mint for flavoring: \_\_\_\_\_ and \_\_\_\_\_.

## THE PLACES WE BUILT

*The People of the Three Fires:* By what name do the Native Americans of this region call themselves? \_\_\_\_\_  
\_\_\_\_\_ Why is story-telling such an important part of Native American culture? \_\_\_\_\_

\_\_\_\_\_

*Early Commerce (the store):* Go shopping! What sorts of things did these village stores sell? (Be sure to look at the real artifacts in the glass cases) \_\_\_\_\_

Where do you think most of the items were made and how did they get to Kalamazoo? \_\_\_\_\_  
...and while you're shopping, find the mice that have invaded the store. How many can you find? \_\_\_\_\_

*Down on the Farm (and Suburbia):* Look at the items in the *farm kitchen* case and watch the activities demonstrated in the table-top video. When you get to *Suburbia*, compare what you saw in the farm exhibit with the items and activities seen in the *suburban house*. These two exhibits represent about 100 years of change.

Note some differences: \_\_\_\_\_

Note some similarities: \_\_\_\_\_

*Developing City:* Check out the "I Spy" wall - then, check out the fire engine. What part of the engine is the "squirrel tail?" \_\_\_\_\_ How was the fire engine moved from one place to another? Use photographs if you need help finding the answer. \_\_\_\_\_

*Suburbia:* The car is parked and ready to go...where? (hint: find the map) \_\_\_\_\_ What do you think this family is planning to do? \_\_\_\_\_

*The Tower (with the big screens overhead):* Go to the north rail and windows (on your right as you enter) and look at the *red* map on the rail and the nearby photos. What two buildings are nearest the Dr. Martin Luther King Memorial Park? \_\_\_\_\_

## DREAMS WE SHARED

*The Douglass Community Center:* Name three kids' activities sponsored by the Douglass Community Center. (look at the pictures or check out the Kids' Menu) \_\_\_\_\_

*WKVM:* Be a news anchor or weather person. When John F. Kennedy spoke to a crowd in Bronson Park, what did he urge them to do? \_\_\_\_\_ Why do you think that was important to him? (hint: he was a senator when he visited Kalamazoo) \_\_\_\_\_

*City of Promise:* Find the Golden Retriever. What is her job? (hint: look at her yellow harness) \_\_\_\_\_  
Meet some of the people who have made a difference in their communities. Choose one you can read about here, or one from your own neighborhood, school or other community. Write their name and a few words that describe that person's contributions. \_\_\_\_\_

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# Third Floor

## The Mystery of the Mummy

Look around this exhibit, then list the following:

Two items of adornment (personal decoration) \_\_\_\_\_

Two items that were functional (something that is useful) \_\_\_\_\_

Two items that were used for ceremonial purposes \_\_\_\_\_

What technologies were used to learn about the Museum's mummy? \_\_\_\_\_

List three things we know about this mummy (hint: Watch "Inside the Mummy" video)

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It took many different people in many different jobs to examine, research, and restore the Kalamazoo Valley Museum's mummy. List some of the careers of the people involved in this project. \_\_\_\_\_

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