



acadience® reading 7–8

Maze

Administration Directions and Scoring Keys

Grade 8 | Progress Monitoring 2

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Directions: Follow these directions exactly each time with each student. Say the words in bold italic type verbatim. Begin with the modeling and practice activities. The practice activities are designed to introduce the assessment task to the student. They are untimed and include correction procedures. The correction procedures are not used once the timing begins.

1. Before handing out the worksheets, say ***I am going to give you a worksheet. When you get your worksheet, please write your name at the top and put your pencil down.*** Hand out the Maze student worksheets. Make sure each student has the appropriate worksheet. If the worksheets are in a booklet, make sure each student's booklet is open to the correct worksheet.

When all of the students are ready, say ***You are going to read a story with some missing words. For each missing word there will be a box with three words. Circle the word that makes the most sense in the story.***

Look at Practice 1. Listen. As a member of a family, you (pause) have, give, lead (pause) the right to put a poster on your bedroom wall. You should have circled the word "have" because "have" makes the most sense. Listen. As a member of a family, you have the right to put a poster on your bedroom wall.

Now it is your turn. Read Practice 2 silently. When you come to a box, read all the words in the box and circle the word that makes the most sense in the story. When you are done, put your pencil down.

Allow up to 30 seconds for students to complete the example and put their pencils down. If necessary, after 30 seconds say ***Put your pencil down.***

2. As soon as all students have their pencils down, say ***Listen. You must (pause) put, obey, practice (pause) traffic laws. You should have circled the word "obey" because "obey" makes the most sense in the story. Listen. You must obey traffic laws.***

When I say "begin," turn the page over and start reading the story silently. When you come to a box, read all the words in the box and circle the word that makes the most sense in the story. Ready? Begin. Start your stopwatch after you say "begin."

3. Monitor students to ensure they are reading and circling the words. Use the reminders as needed.
 4. At the end of **3 minutes**, stop your stopwatch and say ***Stop. Put your pencil down.***
 5. Say ***Now turn to the next passage. Read the passage and circle the word that makes the most sense. Ready? Begin.*** Repeat this process with the third passage and then collect all of the Maze worksheet packets.
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Timing	3 minutes. Start your stopwatch after you say "begin."
Reminders	<ul style="list-style-type: none">• If the student starts reading the passage out loud, say <i>Remember to read the story silently.</i> (Repeat as often as needed.)• If the student is not working on the task, say <i>Remember to circle the word in each box that makes the most sense in the story.</i> (Repeat as often as needed.)• If the student asks you to provide a word or for general help with the task, say <i>Just do your best.</i> (Repeat as often as needed.)

Losing Charlotte

In 14 years of life, I have lost various possessions, including money, three retainers, and a

smart phone. When you lose something that belongs to you, you **feel** crummy about it for a while;

when you **lose** something that belonged to somebody else, you **feel** doubly miserable about it,

especially when the **item** belonged to your favorite uncle and was **valuable** for sentimental reasons.

My family recently **visited** Uncle Elliott and Aunt Grace. They live in Manhattan and both

have careers in the literary world. Uncle Elliott **writes** books and magazine articles about science

and **medicine**, and Aunt Grace is a fiction editor for a **notable** publisher. I enjoy spending time

with them because their **minds** are fountains of knowledge and their **stories** are fascinating. In

addition, they always **appear** to be genuinely interested in my **activities** and life, and I feel smart

and **witty** in their presence.

During dinner at their **apartment**, I mentioned that I had been **busily** composing a class

presentation about the **life** of the writer E.B White and his **classic** children's book, Charlotte's

Maze Scoring Key G8/PM 2/Passage 1

Web. Aunt Grace remarked that Charlotte's Web **continues** to be one of the best-loved **works** of 21

literature. Then she gave Uncle Elliott a **wink**, as though they shared a secret. My **uncle** left 23

the dinner table and returned with an **old** copy of Charlotte's Web. 24

He handed me the **book** and invited me to open it to the **title** page. Across the top of the 26

page was a handwritten message to Uncle Elliott from E.B. White! My **uncle** explained that as 28

a young boy he had been **introduced** to the famous author through a **neighbor** and that Mr. White 30

had kindly autographed Uncle Elliott's **copy** of Charlotte's Web. 31

Uncle Elliott offered to lend me his **book** for my upcoming presentation, an offer so 32

unexpected that I was rendered momentarily tongue-tied. I finally **stammered** my gratitude and 34

assured Uncle Elliott that I would **protect** his book with my life. 35

Unfortunately this **bold** assurance did not hold true for long. Barely a **week** later, my 37

mother and I stood in the **food** court of the mall, confronting the **distressing** reality that I had 39

Maze Scoring Key G8/PM 2/Passage 1

lost Uncle Elliott's **treasured** book. We searched every square inch of the **place**. We checked 41

the lost and found **department** and spoke to mall employees and everyone we **encountered** in the 43

food court. There was no **denying** the bitter truth: the book was definitely **gone**. 45

I had taken Uncle Elliott's copy of Charlotte's Web to **school** that day for my presentation. 46

After school, I had **gone** to the mall to buy a **replacement** watch battery. When I paused for a 48

snack in the food court, I retrieved Charlotte's Web from my **backpack** to admire the autograph 50

once again. I **got** distracted texting and then remembered that I was already late, so I 51

grabbed my backpack and hurried home. 52

Shortly after **arriving** at our apartment, I realized with **panic** that I had left Charlotte's Web 54

on the **table** at the food court. I confessed this to my **mother**, and she drove me back to the 56

mall to search for the book. 57

That **night**, I managed to summon the courage to **phone** Uncle Elliott. With a lump in 59

Maze Scoring Key G8/PM 2/Passage 1

my **throat**, I apologized for carelessly losing something that could never be **replaced**. Uncle

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Elliott was gracious and forgiving, and I **felt** slightly relieved after the phone call; it was still

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painful and I knew it would remain so for a while, which is usually how it **goes** when one

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learns a difficult life **lesson**.

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Forms of Levitation

The term “levitation” comes from the Latin root word “levitas,” which means “lightness.” An

object that can defy gravity and **rise** and float in the air by itself is **said** to levitate. Levitation

can refer to a **number** of scientific and non-scientific events.

In today's **popular** culture, the act of levitating is most often **linked** with magical powers.

Magicians often state that they **can** levitate, that is, that they can **cause** people or objects to float.

These **claims** have been exposed as a sham, as the **supposed** levitation is simply a trick completed

with **wires** and pulleys.

The scientific event of **levitation**, however, is explained through the rules of **physics**. Several

forms of levitation are the **focus** of valid scientific study. For example, **aerodynamic** levitation

occurs when a material is **suspended** in a vertical stream of gas and does not **touch** the container in

which it is **held**. This kind of levitation uses the **gas** pressure to lift an object up in order to

combat the force of gravity that pulls it down. An **air** hockey puck is an example

of **aerodynamic** levitation because it rides on top of **air** jets and skims the top of

the **table**.

One of the most studied forms of **levitation** uses magnetic force. Earnshaw's theorem states

that it is not **possible** to achieve levitation using fixed magnets and **electric** charges. The theorem

was proven by Earnshaw in 1842 and has **been** repeated many times. Now, scientists have

found loopholes within Earnshaw's theorem, and have levitated **objects** using magnetic energy.

This can be **done** by using magnets that are not **fixed**, switching the polarity within an

electromagnet system, or **using** diamagnetic materials.

One example, a maglev train system, is **based** on switching the polarity within an

electromagnet system. It uses magnets that are not **fixed** and varies the strength of the

magnetic force acting on the object. In this **case**, it is a train that has no **wheels**. This system

first levitates the train **cars** and then moves them down the **track**. The train has big magnets

Maze Scoring Key G8/PM 2/Passage 2

under each **car** and the train track has a **magnetized** coil along the track. The coil **repels** the 43

magnets on the cars and this **lifts** the train, and then the coils **start** switching their polarity in 45

a systematic **way**. As they switch polarity, they create **magnetic** fields that move the train 47

forward. One **major** plus to this type of system is the **lack** of friction; because the train cars don't 49

touch anything, there isn't friction, and the **trains** can go much, much faster than trains 51

that **touch** tracks. Some scientists believe these maglev train **systems** could one day travel faster 53

than **planes**. 54

Similar technology is also being used in everyday **objects** such as generators and motors. 55

Advances in **magnetic** levitation may lead to many scientific **applications** that could benefit our 57

future. For **example**, scientists are currently studying how to **use** magnetic levitation to create more 59

efficient **wind** turbines. These turbines would be huge, but may be **able** to increase 61

energy generation by almost 20 percent. **Cancer** researchers are also using magnetic levitation 62

Maze Scoring Key G8/PM 2/Passage 2

by **growing** cancer cells in a lab that are more **similar** to the tumors found in living **animals**.

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As we learn more uses for **levitation** and better understand how to create it with magnetic

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force, we may start thinking of magnetic levitation as a **means** to a “lighter” future.

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Ancient Civilization: The Maya

The term “Mesoamerica” is used to describe central Mexico and parts of Central America before

the arrival of the Spanish in the 1500s. It was in Mesoamerica that the Maya **built** a sophisticated

civilization that was known for its **art** and architecture, as well as for its **mathematical** and

astronomical systems. The start of the Maya **civilization** can be traced back to about 1500 B.C.,

reaching its height around 900 A.D.

The Maya **built** large cities, and their population grew to **roughly** two million. Each

city was independent and **led** by its own king. Maya cities were **dependent** on trade for goods,

but they also **fought** wars with one another. The cities **featured** limestone pyramids with a built-in

stair-stepped **design** that could reach over 30 stories **tall**. These pyramids were

decorated with elaborate **works** of art and inscriptions, or writing. The Maya also **built** palaces

for their kings, temples to **worship** their gods, and ball courts on which the **people** played a game

much like modern-day **soccer**.

Maze Scoring Key G8/PM 2/Passage 3

Farms surrounded the great cities, and despite a

lack

of farm animals and modern machines,

the Maya were

expert

farmers. They grew enough crops, including maize,

squash

, and beans, to

feed their large

population

. The farmers used slash-and-burn agricultural methods in which they

cut

down areas of forests, burned the

land

, and mixed the ashes with the

soil

to make

it more fertile. The Maya also

developed

a system of irrigation that provided

water

for their terrace

farms. In terrace

farming

, they built steps into the side of a

mountain

and planted crops on each

step; when it

rained

, the crops' nutrients flowed from one

step

down to the next rather than

being

washed

away down a steep hill.

The Maya **believed** in many gods, including sun, rain, and

corn

gods, and all parts of

Maya

life

were ruled by religion. The Maya **believed** their kings were directly related to

gods

, and the royal family's main responsibility was

pleasing

the gods and meeting their

needs,

including

through human sacrifice. Mayan religious beliefs also

led

to several

discoveries and inventions. For example, the Maya **developed** a calendar based on the movement of

the **sun**, tracked the cycles of the sun, **moon**, and planets, and accurately predicted solar

eclipses. The Maya discovered the concept of zero and **used** a base-20 number system in which a

dot represented the number one and a **bar** was the symbol for five. The Maya **developed** a

system of writing in which they **used** symbols, or glyphs, to stand for a **word** or a syllable.

They used this **writing** system to record their discoveries, rituals, and **history** and bound these

writing into books **made** from tree bark paper. Only four Maya **books**, known as codices, still

exist today.

By about 900 A.D., the **great** cities of the Maya civilization were **empty** and the

population scattered. Scientists are **unsure** why, though they have different theories. Some

scientists think the Maya practices such as slash-and-burn **farming** used up their resources and

forced them to **move**. Others believe the ongoing wars between **different** cities resulted in

ruin. A third **theory** suggests the decline was the result of a **natural** disaster or environmental

change, such as **severe** drought.

Scientists continue to make discoveries about the Maya. Much of what they **learn** comes from

the study of the **remains** of their architecture and art. Learning to **read** their hieroglyphics is

another process by which we **continue** to develop our understanding of this once great **civilization**.