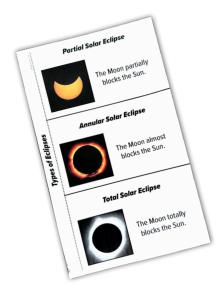


See DINAH.COM's Video for instructions and ideas on how to assemble and use these Foldables.

Mini-Movie FlipBook: Total Solar Eclipse

- 1. Cut apart the 7 sections and cut off the gray section on each.
- 2. Stack the number on the anchor tabs in order with 7 on the bottom and 1 on the top.
- 3. Line up the left anchor tabs and staple together.
- 4. Make one FlipBook and demonstrate how to use it with the class. Place the FlipBook in the in your class station. Make multiple station FlipBooks if needed.
- 5. Students visiting the station hold the left, stapled edge of the booklet while rapidly flipping the right edge of the booklet to view a mini-movie.
- 6. In their notebooks, students record what they observed. Were they able to see the Sun being covered as they flipped the book? How does this *movie* relate to a total solar eclipse?



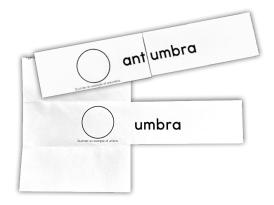


3-Tab Foldable: Types of Eclipses

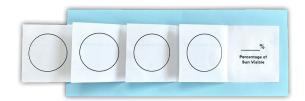
- 1. Print a 3-Tab *Types of Eclipses* Foldable for each student and discuss. Students fold and adhere the anchor tab to a page in their notebooks.
- 2. AFTER the glue dries, students cut to form three tabs.
- 3. Under the tabs, students explain each type of eclipse.

Visual-Kinesthetic-Vocabulary Card

- 1. Make one VKV card per student. Students create words by manipulating the VKV.
- 2. Words formed are umbra, penumbra, and antumbra.
- 3. After viewing the words formed, students observe the definitions of each on the back of the card and discuss. Students can take notes on the lines provided. VKV cards can be stored in a pocket in student notebooks.







Observation Billboard Assembly Instructions

See foldable page for instructions.



 $\ \odot$ 2024, www.dinah.com, 1-800-99DINAH **Total Solar Eclipse** Remove gray section. Remove gray section. 7 1 Remove gray section. Remove gray section. 3 Remove gray section. 5 9 7



Types of Eclipses



Partial Solar Eclipse



Total Solar Eclipse



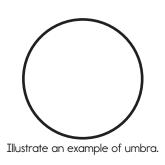
The Moon almost blocks the Sun.



The Moon partially blocks the Sun.

Annular Solar Eclipse

The Moon totally blocks the Sun.



umbra

umbra - Total Eclipse

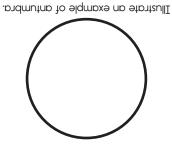
penumbra - Partial Eclipse _____

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Cut out gray area.

antumbra - Ring of Fire

qut



Illustrate an example of penumbra.

Solar Eclipse Observation Billboard Page 1 of 2 (Print double sided with next page.)



Observation Billboard Assembly Instructions

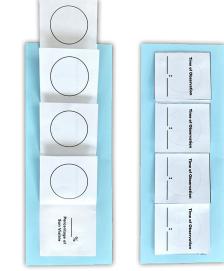
- 1. Cut out the four rectangular sections.
- 2. Fold them in half along the dotted lines. Time of Observation should be visible on the front of each.
- 3. Fold a sheet of 8 $1/2" \times 11"$ paper in half like a hotdog. This will be the base of the Observation Billboard.
- 4. Glue the four sections edge-to-edge in a row on the front of the hotdog, as pictured.
- 5. Record observations four times while viewing the eclipse. Students record a time, open the tab, and quickly sketch in the circle to show how much of the Sun is covered by the Moon. These actions should take seconds

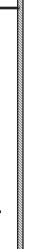
during tieldwork. and the percentage of the Sun exposed at the time recorded without missing the experience. Scientists must do this NOTE: Students can color and label the Sun diagram after the eclipse. The purpose is to record the position of the Moon,

6. When the tabs are closed, a time sequence is visible. When the tabs are open, the progression of the eclipse is visible.

looked like at the peak of the eclipse. 7. Inside the hotdog, students write about their viewing experience and/or draw a picture of what their surroundings

that presented two different ads. *Did you know:* Dinah Zike originally designed this activity after viewing an old-style motorized billboard with rotating panels





	Time of Observation
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