

ORGANIZER ANSWER KEY



Keep this with the organizer. Don't copy it with the handouts.

SAMPLE · NOT A REAL EVENT · Sample Family Movie Night

Round 1: Lights & Screens

- 1 Which is faster: light or sound? Answer: **Light** (That's why you see lightning before you hear thunder. Source: National Weather Service (NOAA))
- 2 How does light travel from a flashlight? Answer: **In straight lines** (Light goes out in straight lines until it hits something. Source: Science Learning Hub, University of Waikato)
- 3 Why can't we see stars in the daytime? Answer: **The sky is too bright** (The stars are still there. The bright sky hides them. Source: NASA Goddard Space Flight Center)
- 4 Why do outdoor movies wait until after sunset? Answer: **Dark makes it clearer** (Extra light on the screen washes out the dark parts of the picture. Source: Wikipedia)
- 5 Is it OK to look right into a projector's lens? Answer: **No, never** (The bright light can hurt your eyes. Source: Epson America)

Round 2: Making Movies Move

- 1 Flip a flip book fast. What do the pictures seem to do? Answer: **Move** (Each page changes a little, so fast flipping looks like motion. Source: Science Museum Group Collection)
- 2 About how many pictures does movie film show each second? Answer: **24** (Sound film runs at 24 frames every second. Source: Canyon Cinema Foundation)
- 3 What spinning toy with slits makes drawings look like they move? Answer: **Zoetrope** (You peek through the slits as it spins and the drawings move. Source: History of Science Museum, University of Oxford)
- 4 Still pictures seem to move. Which part of you does most of that work? Answer: **Your brain** (Your brain's motion sense turns quick, small changes into movement. Source: Journal of Film and Video (copy hosted by University of Central Arkansas faculty site))
- 5 What do filmmakers call a plan of the movie drawn shot by shot? Answer: **A storyboard** (It shows what each shot will look like before filming. Source: ACMI (Australian Centre for the Moving Image))

Round 3: Sounds of the Show

- 1 Sound artists knock coconut halves together. What does it sound like? Answer: **Horse hooves** (Clip-clop! Coconut halves are an old sound-effect trick. Source: The Los Angeles Film School)
- 2 Shake a big, thin metal sheet. What sound can it make? Answer: **Thunder** (Theaters and film crews call it a thunder sheet. Source: Wikipedia)
- 3 Flap a pair of gloves fast. What does it sound like? Answer: **Bird wings** (Sound artists ruffle old leather gloves to copy flapping wings. Source: Northumbria University, Newcastle)
- 4 Crinkle cellophane slowly. What sound can it copy? Answer: **A crackling fire** (Cellophane crackles a lot like a campfire. Source: Wikipedia)
- 5 What makes every sound you hear? Answer: **Vibrations** (Things shake the air, and the air shakes your eardrums. Source: Science World (British Columbia))