Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_ Ast: \_\_\_\_\_

**HOW EARTH MOVES VIDEO QUESTIONS**

1. What do you call a line from where you are right now straight towards the North and South poles? (2:55)

*Your meridian*

1. Where do ALL shadows around you point when your meridian is pointed right at the Sun? (3:20)

*straight toward one of Earth’s poles*

1. What happens to shadows at the “sub solar point”? (3:48)

*shadows fall straight down, so they could easily “disappear”*

1. Based on distant, “fixed” stars, how long does a “sidereal day” last? (6:07)

*about 23.9 hours*

1. Is a “solar day” longer or shorter than a “sidereal day”? (6:44)

*longer*

1. Is “REAL” time based on what the Sun says, or what our clocks say? (8:20)

*clocks*

1. How much shorter is September 18th than December 22nd? (10:20)

*almost one minute shorter*

1. How many “extra” solar days (after 365) must occur to fully complete one solar year? (11:50)

*about a quarter day (1/4)*

1. There is an “extra” day every four years. On what date does this day occur? (12:30)

*February 29th (leap day)*

1. If the United States had abolished “leap days” when it was founded, what month would our hottest summer days currently occur in? (13:13)

*October*

1. By the year 1582, how long were Julian calendars “behind”? (14:09)

*10 days*

1. What day followed October 4th in 1582 when the Gregorian calendar was introduced by the Pope? (15:15)

*October 15th*

1. What year did British colonies (like the soon-to-be United States) adopt the Gregorian calendar, eliminating 11 days in September and moving the first of the year from March 1st to January 1st, resulting in George Washington having “two birthdays”? (15:31)

*1752*

1. On a scale of 1-10 (10 being the best), rate your interest in/enjoyment of this video. (20:30)

*10*