

STEM Fair
Thursday, May 28th

Science Torah Education Math

3:30-5:00
7:00-8:00
At ASHAR

ASHAR

The poster features a young boy with a kippah lying on his stomach on a vibrant green grassy hill under a bright blue sky with scattered white clouds. Above the boy are four circular icons: a purple atom for Science, a red circle with two stone tablets for Torah, a green circle with a graduation cap for Education, and a blue circle with a line graph for Math. The ASHAR logo is in the bottom left corner, and the event schedule is in the bottom right.

STEM is an acronym for Science, Torah, Education and Math. We focus on these areas together because the skills and knowledge in each discipline are essential for student success. Since these fields are crucial to success in the real world, our students have gained tremendous insight in discovering how they are intertwined. ASHAR proudly presents our STEM Fair which culminates our learning throughout the year.

1st Recycling

- ❖ Graph of things we recycle
- ❖ "Save the Earth"
- ❖ . בל תשחית

2nd The scientific process through growing plants

- ❖ 2B: Stages in the growth of tree & man
- ❖ 2G: ספרים על אילנות ופיחת
- ❖ Experiment-based graphs, polls & plant statistics

3rd Animals & Habitats

- ❖ Perek Shira
- ❖ Endangered Specials
- ❖ Animal adaptation - rainforest, deserts, savannah, oceans
- ❖ Animals in the Torah

4th Simple Machines

- ❖ 4B: Sukkah construction
- ❖ 4G: Mitzvah Machines
- ❖ Calculations based on machine productivity

5th Nervous, Circulatory, Musculature, Skeletal and Respiratory Systems

- ❖ Shimshon Hagebar
- ❖ תפלין
- ❖ Machot dom, Brit Milah, Karbon Pesach,
- ❖ . Bones of Yosef

6th Solar System

- ❖ בריאת העולם, קידוש לבנה, משיב הרוח, מעשה ברישת ומוריד הגשם, ברכת המזון
- ❖ Berchat Hachama, Brit im Avraham, Rosh Chodesh
- ❖ Space exploration
- ❖ Stars and constellations
- ❖ Planets
- ❖ Moons and Tides

7th Life Science—Human Biology

- ❖ Trait of ישראל, לוי, כהן, לוי, genetic inheritance
- ❖ Population Density
- ❖ Jewish Genetic Disorders, Diabetes, Dor Yeshorim
- ❖ Laws of benching and calories lost over food
- ❖ מצה & חלה energy absorption food
- ❖ 8 Processes of life
- ❖ Signs of Kosher Animals, Kashrut
- ❖ Preparation for a Karbon
- ❖ Osmosis, Symbiosis

8th Physical Science & Chemistry

- ❖ Density, Atomic Mass & Measurement
- ❖ Periodic Table & its Elements
- ❖ Heavy Elements & Stars
- ❖ קדוש לבנה
- ❖ sinking at different rates
- ❖ Newton's Laws of Motion
- ❖ Heterogeneous/Homogeneous Mixtures