

AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES



Future Rockhounds of America Badge Program Fifth Edition

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Future Rockhounds of America Badge Program

MISSION STATEMENT

Future Rockhounds of America is a nationwide nonprofit program within the American Federation of Mineralogical Societies that develops and delivers quality youth activities in the earth sciences and lapidary arts in a fun, family environment. Our underlying goals are to foster science literacy and arts education through structured activities that are engaging and challenging and by which kids—and the adults who mentor them—learn while having fun.

Year at a Glance

August 2022

Fluorescent Minerals

September and October 2022

Showmanship

November 2022

Fossils

December 2022

Gemstone Lore and Legend

January and February 2023

Special Effects

March 2023

Lapidary Arts

April and May 2023

Gold Panning

Year Plan

	Meeting Date/ Agenda	At Home Work	Events
August 2022 Fluorescent Minerals	August 2nd Fluorescent Minerals What is a "fluorescence" 18.1 Make fluorescence with paint 18.7	Famous fluorescent materials 18.2	August 25th OUTSIDE MEETING 10510 Dolores Ave. GV Safety with lamps 18.5 Creating fluorescence display 18.4 Special effects 18.6 DATE: TBD Curious Forge - Lapidary Project 4.3 - Safety 4.2 Choosing a Project
September 2022 Showmanship	September 6th Teach about techniques for effective displays 6.1 / 6.2 Prepare childrens' area for show 6.4	Create rock collection for display	Date: TBD - EXTRA prep for Kid's Corner at NCGM Show Place items in polisher for show
October 2022 Showmanship	October 4 Enter competition 6.5 Observe and evaluate displays 6.3		NCGMS SHOW October 8th and 9th
November 2022 Fossils	November 6 Dinosaurs - 3.7 Fossil and dinosaur names - 3.8	Types of fossilization - 3.2 Your state fossil - 3.6	DATE: TBD Curious Forge - Lapidary Project 4.1 Lapidary Rocks 4.4 Finishing a Project
December 2022 Gemstone Lore and Legend	December 8 NO MEETING	Choose 3 activities from the Lore and Legends packet	5:30-8:00 - Holiday Potluck
January 2023 Special Effects	January 3rd Triboluminescence 17.2 Phantoms and Inclusion 17.3	Magnetism 17.1	
February 2023 Special Effects	February 7th Birefringence 17.4 Chatoyancy 17.6	TV Stone 17.5	
March 2023	March 7th	SUBMIT Display Case to County Fair	DATE: TBD

Lapidary Arts	SHARE Lapidary Project with NCGMS 4.5 Share lapidary project		Curious Forge - Lapidary Project 4.7 Teach a lapidary project
April 2023 Gold Panning	April 4th Uses of gold. 12.2 Gold throughout history. 12.3	Gold resources in CA. 12.4	Date: TBD Field Trip to Empire Mine 12.5
May 2023 Gold Panning	May 2nd Metal detecting 12.7		Date: TBD Field Trip to Bear River 2.6

Achievement Checklist 2022-2023

To keep track of your achievements, put a checkmark in the boxes next to each activity.
To earn a badge, you should complete at least 3 activities for each category and then have your leader send a signed notice to the AFMS Juniors Activities Chair.

3. Fossils Date badge earned: _____

- 3.1 The geological time chart.
- 3.2 Types of fossilization and making or excavating fossils.
- 3.3 The forms of life.
- 3.4 Collecting fossils.
- 3.5 A fossil-collecting field trip.
- 3.6 Your state fossil.
- 3.7 Dinosaurs.
- 3.8 Fossil and dinosaur names.
- 3.9 WILD CARD: Do your own thing!

4. Lapidary Arts Date badge earned: _____

- 4.1 Learning about lapidary rocks.
- 4.2 Choosing a lapidary project.
- 4.3 *Workshop safety and maintenance* (required)
- 4.4 *Completing a lapidary project* (required)
- 4.5 Sharing your lapidary project.
- 4.6 Gemstone minerals.
- 4.7 WILD CARD: Do your own thing!

6. Showmanship Date badge earned: _____

- 6.1 Techniques for effective displays.
- 6.2 Holding a workshop on display ideas.
- 6.3 Observing and evaluating displays.
- 6.4 *Making your own public display* (required)
- 6.5 Entering competition.
- 6.6 WILD CARD: Do your own thing!

12. Gold Panning & Prospecting Date badge earned:_____

- 12.1 Gold as a mineral.
- 12.2 Uses of gold.
- 12.3 Gold throughout history.
- 12.4 Gold resources in your own state or region.
- 12.5 Field trip to a gold mine.
- 12.6 Panning for gold.
- 12.7 Metal detecting for gold, coins, and other artifacts.
- 12.8 WILD CARD: Do your own thing!

13. Gemstone Lore & Legend Date badge earned:_____

- 13.1 Anniversary stones.
- 13.2 Birthstones and the Zodiac.
- 13.3 Fabled gemstones.
- 13.4 Gems in religion.
- 13.5 Mysticism and minerals.
- 13.6 WILD CARD: Do your own thing!

17. Special Effects Date badge earned:_____

- 17.1 Magnetism.
- 17.2 Triboluminescence.
- 17.3 Birefringence, or double refraction.
- 17.4 Chatoyancy: cat's eye and asterism.
- 17.5 Natural fiber optics, or "TV stone."
- 17.6 Phantoms and inclusions.
- 17.7 Other special effects.
- 17.8 The amazing mineral magic show!
- 17.9 WILD CARD: Do your own thing!

18. Fluorescent Minerals Date badge earned:_____

- 18.1 *What is "fluorescence" and why do some minerals fluoresce?*" (required)
- 18.2 Famous fluorescent mineral localities.
- 18.3 Collecting fluorescent minerals.
- 18.4 Creating/exhibiting a fluorescent display case
- 18.5 *Safety with fluorescent lamps.* (required)
- 18.6 Special effects of some fluorescent minerals.
- 18.7 Making fluorescent minerals with glow-in-the-dark paints.
- 18.8 Finding the fluorescent mineral in the "Magic Cave"
- 18.9 WILD CARD: Do your own thing!

Rock Hound Pledge

The house may bulge with rocks galore,
Some bought, some swapped, some found.

Yet off we go on each new jaunt,
Rock see; rock find; ROCK-HOUND!



Rocks & Minerals



Earth Resources



Fossils



Lapidary Arts



Collecting



Showmanship



Communication



Field Trips



Leadership



Earth Processes



Earth in Space



Gold Panning & Prospecting



Gemstone Lore & Legend



Stone Age Tools & Art



Rocking on the Computer



World in Miniature



Special Effects



Fluorescent Minerals



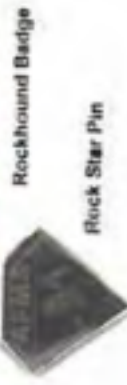
Reaching Across Generations



Maps



Membership Patch



Rockhound Badge

Rock Star Pin