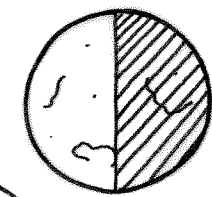
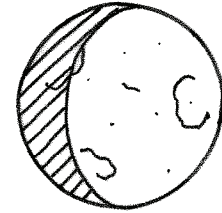
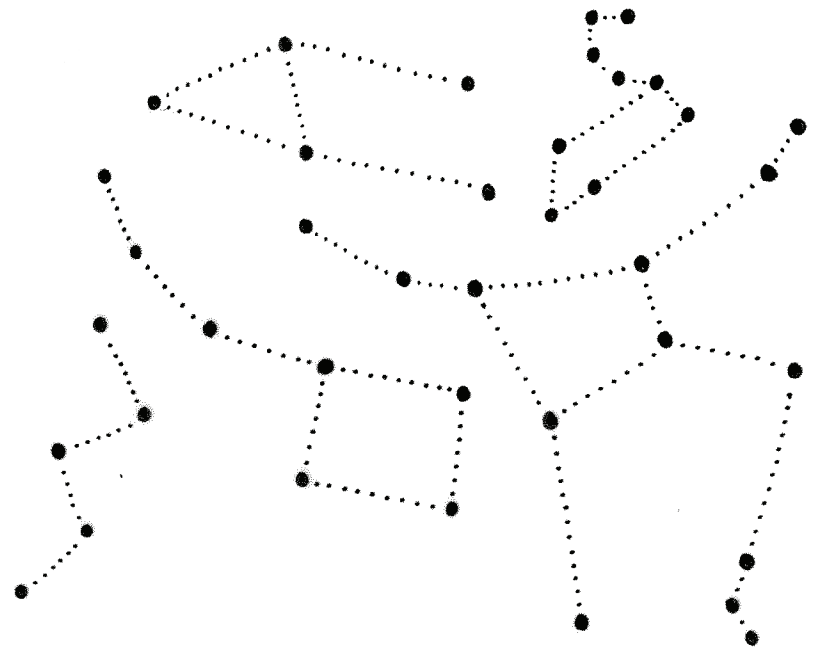
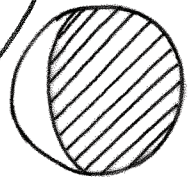
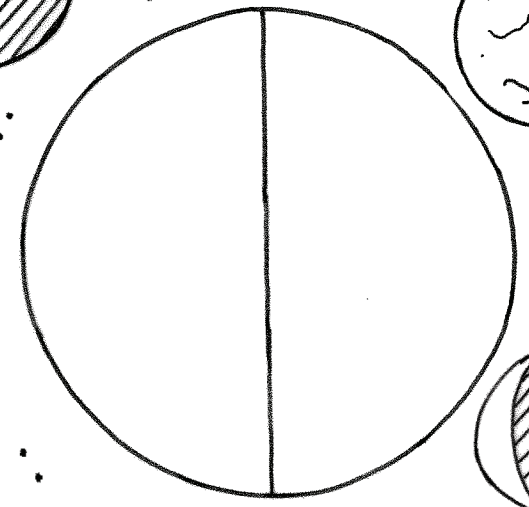
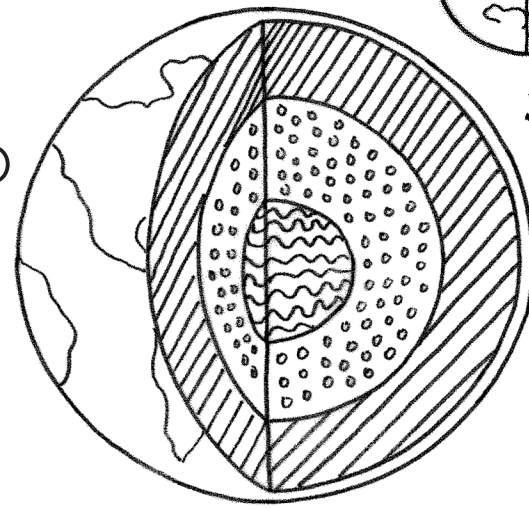


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# GEORGE ALCORN INVENTED THE X-RAY SPECTROMETER

**National Inventors Hall of Fame Inductee**  
**George Alcorn** is a physicist and engineer known for his work with space technologies. His invention analyzes x-ray light patterns and has been used to map planets and search for new ones.



### Create A Planet

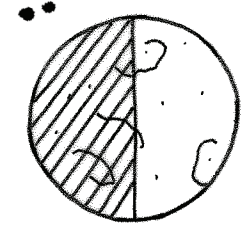
Hundreds of new planets in other solar systems are being discovered right now! Sketch a new planet of your own using the key.

Key	
	ROCK
	GAS
	ICE
	LAVA
	WATER
	SAND
	MUD

### Moon Phases

Have you ever seen a full moon? How about a moon shaped like a banana?

As the Earth rotates around the Sun and the Moon rotates around the Earth, the Sun lights up different parts of the Moon and creates the phases.



### Start Gazing

Connect the stars to create some of the shapes found in the night sky. Tonight, look up and see what shapes you can see!

### Moon Phase 101

See if you can find the Moon in each of these phases on this page.

New Moon	Waxing Crescent	First Quarter	Waxing Gibbous	Full Moon	Waning Gibbous	Last Quarter	Waning Crescent

Draw an outer space-themed invention here.



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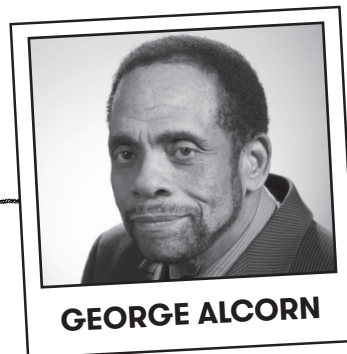
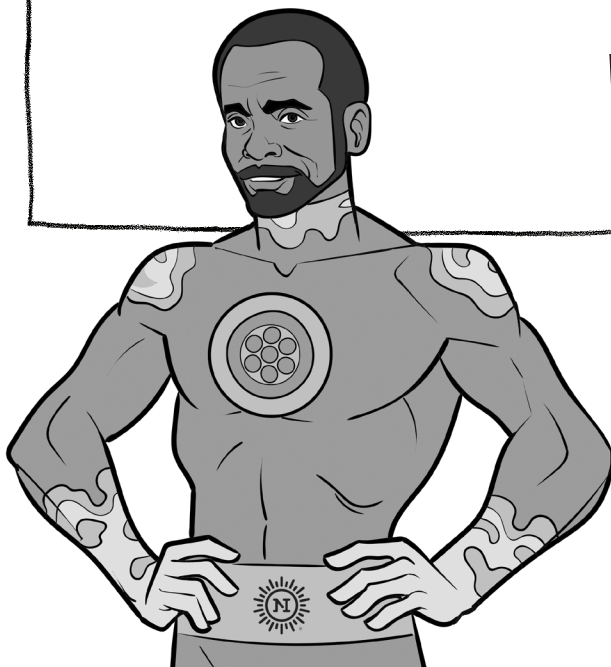
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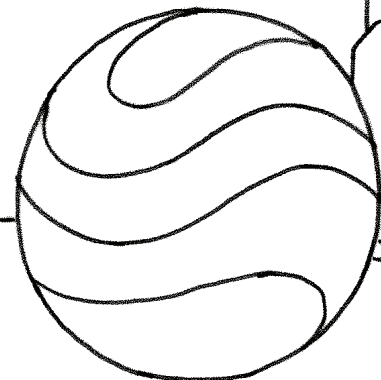
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**GEORGE ALCORN**



### George Alcorn got an early start!

He spent hours under hoods of cars with his father, who was an expert mechanic. This helped George begin to understand how machines work.