

## BROWNIES SPACE CAMP AGENDA

The main goal of our activities this weekend – along with our first overnight camping experience and having LOTS of fun! - is to fulfill some program requirements for the Brownie Key to STEM, and the interest badge, exploring space.

Friday		Who's responsible
5:00PM	Leaders arrive and set up camp <u>(meal to be picked up for leaders beforehand?)</u>	LB
6:30 PM	Girls arrive. Please check in with your Unit Guider and turn in all Medications to First Aider. Girls to put pack/sleeping bag on the <u>pre-assigned</u> bunk beds.	ALL
7:00	Opening Introductions of Staff Rules of Camp Overview of the weekend	RG's for @ unit
7:30	<u>Activity 1:</u> Space Olympics/Astronaut Training	IM
8:15	Fire Drill just prior to starting snack, Bedtime snack	CL, AK
8:45	½ girls to set up beds, other ½ to get changed, wash up for bed	
<u>9:15</u>	Wind-down activities (Roberta Bondar book)	MJ (book)
9:30	Lights out; <u>flashlight time 15 min:</u> 1 min before lights out, girls to tidy up own area	
Saturday		
<u>6:45AM</u>	<u>Leaders wake up: get hot water going for dishes, etc.</u>	PS, AK
7:00	Cook's Helpers get up	
<u>7:30</u>	<u>Girls wake up: ½ clean up bunk bed area: other ½ to bathroom to wash up and get changed, then switch</u>	
<u>8:00</u>	Breakfast	
<u>8:30</u>	<u>Wash Dishes.</u> Duties	
<u>9:00</u>	<u>Prepare for day, free time</u>	
<u>9:15</u>	<u>Flag &amp; Ceremony-</u> Launch your space shuttle, <u>Land on the moon and "plant" the flag</u>	DR, PS
9:30	<u>Activity 2:</u> 3 Planet stations (10 min each, plus travel time)	LB
<u>10:15</u>	Snack, - trail mix treasure hunt; potty break	MJH
<u>10:45</u>	2 Planet stations (10 min each, plus travel time)	LB
<u>11:45</u>	Duties	
12:00noon	Lunch	AK, CL
12:30	<u>Wash dishes.</u> Duties	
1:00PM	Activity 4, quiet time – Saturn craft and spaceship (split girls in half); planet colouring books for girls who finish first	KW
2:00	5 planet stations (10 min each, plus travel time)	LB

3:15	Afternoon snack_re-fill water bottles, potty break	
3:45	Activity 6, active <u>outdoors</u> – snowshoeing or hike, snow painting or ; <b>girls to participate with own unit</b> . Astronauts and Aliens wide game , Pruey, Frisbee toss.	KW, JP, CW
4:45	<u>Free time</u>	
5:15	<u>Duties</u>	
5:30	Dinner (Monk’s dinner – keep quiet or you’ll lose your utensils, hands,...)	AK, CL,
6:30	<u>Wash Dishes</u> . Duties, prep for campfire	
7:00	Campfire, star-gazing, roasting marshmallows; sing space-themed songs <u>Snack, hot chocolate (closer to 8pm); wintergreen lifesavers</u>	PS, <u>Jr Leader</u>
8:00	½ girls to set up beds, other ½ to get changed, wash up for bed; read story; wind-down activities	
8:30	Lights out; <u>flashlight time 15 min: 1 min before lights out. girls to tidy up own area.</u> Inspection	
<b>Sunday</b>		
6:45AM	<u>Leaders wake up: get hot water going for dishes, etc.</u>	PS, CL
7:00AM	Cook’s Helpers get up	
7:30	Girls wake up; ½ tidy up bunk bed area; other ½ to bathroom to wash up and get changed, then switch	
8:00	<u>Breakfast</u>	
8:30	<u>Wash dishes, duties</u>	
9:00	Pack up personal gear (extra parent volunteers can now start to help clean up facility)	
9:45	Activity 8, outside if possible (so we can clean rest of facility)	MJH
10:15	Oral or written evaluations, closing ceremony (flag down, badges/crests, etc.)	PS, Jr Leader
10:30	Parents/guardians arrive to pick up and sign out their daughters	
11:00	Final clean up; leaders depart.	

## ACTIVITIES/CRAFTS

We organized our main activities into 'planet' stations, or challenges (got the idea from a Trefoil publication from 1998 on Camp Themes, specifically The Last Frontier). We modified the activities quite a bit. For each station they completed, they received a planet bead. All 10 beads were then placed on a wire in a circle to represent the solar system, accompanied by a tag describing the event. The resulting camp hat craft was cool (see picture; the craft is less than 1" actual size).



Planet	Activity	Where	Supplies/pre-planning
1. Saturn	1. Ring Toss	Out	MJ – post, PS - necklaces
2. Venus	2. Spinning Planets/races	Out	PS – n/a
3. Earth	3. Alka Seltzer rockets	Out	(const. paper, tape, film canisters, alka seltzer, tp roll)
4. Neptune	4. Collect 11 moons (balls)	Out	LB – small balls
5. Unknown Planet/Xena	5. Earth ball in the air/gravity	Out	PS, MJ – earth balls from dollar store
6. Mercury	6. Borax stars	In	PS – borax, pipe cleaners, jars, hot water
7. Mars	7. Glow in dark constellations	In	IM – black paper, glow in the dark stickers
8. Uranus	8. Bookmarks	In	KW – bookmarks, foam stickers
9. Pluto	9. Song Station	In	IM – list of planet songs
10. Jupiter	10. Slime	In	

## DETAILS ON ACTIVITIES/CRAFTS

1. **(Outside) Ring Toss:** use glowsticks as rings and post
2. **(Outside) Spinning planets:** have girls take turns, one girl is inner circle (fast moving orbit), another girl on outside taking big, slow steps, another girl on outside taking baby steps. Demonstrates how planets on different orbits work.
3. **(Outside) Alka seltzer rockets aka**

### **Celebration Seltzer Rockets**

These rockets can't burn anyone! You make them before you fly them. Parental supervision is recommended.

This project is rated **EASY** to do.

#### **What You Need**

- Film canister with snap on lid (Fuji)
- Toilet paper roll (double roll size, preferred)
- Construction paper
- Scissors

- Scotch tape
- Markers, crayons, or paints
- Stickers, optional
- Alka-Seltzer tablets (generic works fine)
- Water in a container
- Eye protection (glasses)

### How To Make It

1. Cut straight up the side of the toilet paper roll.
2. Insert the film canister at one end, making sure the end with the lid sticks out about 1/8".
3. Tape along one edge of the toilet paper roll onto the film canister. Roll the toilet paper roll around the canister and tape tightly into place.
4. Cut a circle out of construction paper, cutting a pie shaped wedge out of the circle. Experiment with different sizes of circles to see if it makes a difference in how the rocket reacts upon launch.
5. Roll the paper into a cone shape and tape onto the other end of the toilet paper tube.
6. Decorate your rocket with markers, stickers, crayons, or paints.
7. Cut 4 squares out of construction paper to make fins if you wish. Tape on to lower sides of rocket.
8. Take outside: the rocket, water, Alka-Seltzer tablets, and eye protection.
9. Put on your eye protection.
10. Turn the rocket upside down, remove the lid from the canister, and fill 1/4 full with water. Drop in tablet and immediately replace lid and set on ground. Back up!

Experiment with using one or two tablets into the canister to see if it will shoot up higher. Be sure to look for the tablets after the rocket fires, we were able to reuse some of them a couple of times. Be sure to rinse off your driveway or sidewalk after finishing with your rockets.

### Tips

Waxtex wax paper rolls appear to fit the film canisters, without having to cut them. Check any other type of rolled products you may have on hand, you may find another one that fits even better!

4. **(Outside) Moon balls** – simply hide brightly coloured plastic balls around outside (i.e. under leaves)
5. **(Outside) Earth ball** – we bought a blow-up Earth ball (like a beach ball, but earth-themed); girls had to keep it up in the air. Can try to explain concept of gravity
6. **(Inside) Borax stars** –

### How to Grow Borax Crystals

1. Bend a wire or pipe cleaner into the shape of a snowflake (*\*\* we just used a straight pipecleaner*). If you don't have either of those items, you can use a button.
2. Tie the wire, pipe cleaner or button to one end of a piece of string.
3. Tie the other end of the string around the middle of a pencil.
4. Boil 1 c. water.
5. Remove from heat.
6. Add the borax slowly, one teaspoon at a time, stirring continuously.
7. Add blue food coloring (*\*\* we skipped this part*).
8. Pour the solution into a glass jar.
9. Place the pencil over the top of the jar so that the string is hanging down into the jar and the wire, pipe cleaner or button is submerged about three-quarters of the way down into the solution.
10. Allow the jar to sit someplace where it won't be disturbed.
11. Check on the solution in about 24 hours, and you'll see crystals forming around the object at the end of the string.

#### Tips:

You can find borax in the laundry section of the grocery store.

If the string hanging from the pencil is too long when you place it in the solution, just roll the pencil between your hands until the string wraps around it and the length hanging down becomes shorter.

Make sure to supersaturate your solution. This means continuing to add the borax and stir it in until the solution is saturated and the borax begins collecting on the bottom of the dish.

7. **(Inside) Glow in the dark constellations** – use black construction paper, and glow in the dark paint and/or stamps. Can either have girls create their own or have reference books on hand so they can duplicate actual constellations on paper.
8. **(Inside) Bookmarks** – bought fun foam bookmarks and fun foam space-themed shaped-stickers. Girls were quite creative.
9. **(Inside) Song Station** –

<p><b><u>Zoom, zoom, zoom</u></b> Zoom, zoom, zoom, We're going to the moon, Zoom, zoom, zoom, We'll be there very soon, If you care to take a trip, Step into my rocket ship, Zoom, zoom, zoom, We're going to the moon.</p>	<p><b><u>World of Tomorrow</u></b> (Tune: Row, Row, Row Your Boat)  Up, up, up they go Rockets into space. Faster, faster, faster, faster, How can we keep pace.  Up, up, up they go Rockets to the moon. Farther, farther, farther, farther, Mars now, Venus soon.</p>	<p><b><u>Astronomer's Song</u></b> (Tune: Yankee Doodle)  We've got our eyes upon the sky We watch the stars that shimmer, The sun and moon are friends of ours, We know their every glimmer.  Keep your eyes upon the skies, Watch the twinkling stars, It's better than a TV show, By Jupiter and Mars.</p>
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## 10. (Inside) Slime

### Slime: How To Make Slime

**Difficulty:** Easy **Time Required:** 15 mins

#### What You Need:

- Measuring Cup
- Borax powder
- Water (distilled best)
- 4 ounce (120 ml) glue
- Teaspoon (or metric)
- Bowl - 2 quart (2 L)
- Big jar or measuring cup
- Food coloring (optional)

#### Here's How:

1. Pour the glue into the jar.
2. Fill the empty glue bottle with water and stir it into the glue.
3. If desired, add a few drops of food coloring. Otherwise, the slime will be an opaque white.
4. In the bowl (not the glue mixture), mix one cup (240 ml) of water into the bowl and add 1 teaspoon (5ml) of borax powder.
5. Slowly stir the glue mixture into the bowl.
6. Place the slime that forms into your hands and knead until it feels dry. (Don't worry about the excess water remaining in the bowl.)
7. The more the slime is played with, the firmer and less sticky it will become.
8. Have fun!
9. Store your slime in a zip-lock in the fridge (otherwise it will develop mold).

#### Tips:

1. Use white glue, such as Elmer's brand. Most 'school glues' do not have the correct composition.
2. Don't eat the slime - it isn't especially toxic, but not good for you either!
3. Should clean up easily. Remove dried slime after soaking with water.

## AFTERNOON CRAFTS

**1. Sculpeys:** girls created space aliens, planets, solar system with sculpeys, and baked them; good camp hat craft.

**2. Spaceship craft:** (see picture)

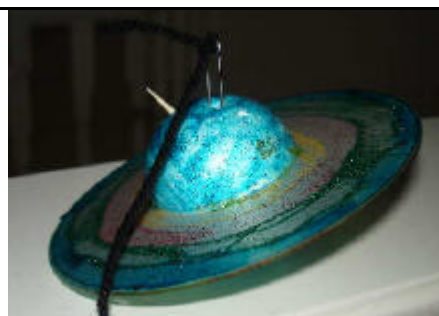
SUPPLIES: pipecleaners, foam balls, stickers, glitter glue, wooden beads, cheap paper/styrofoam plates, glue

1. insert 4 - 2" pipe cleaners into bottom plate and add one bead at the end for stability (this will be the 'landing legs')
2. cut hole in top plate
3. Create an alien out of pipecleaners and foam balls.
4. Glue the two plates together (as shown in picture)
4. Glue or tape clear slurpee cup lid over top of hole
5. Decorate top.



**Model Saturn:** we modified this a bit. We painted the styrofoam ball halves with glitter glue ahead of time (so they'd be dry for the assembly onto the CD).

Also, when it came to decorating the rings on the top of the CD, we used glitter glue and paintbrushes and did it all at once. Their suggestion is to use glue and glitter separately. For example, if you wanted more than one colour of ring, you'd apply the glue in a ring, sprinkle silver glitter. Let dry. Then apply more glue in a ring, and sprinkle gold glitter. Let dry. And so on. We didn't have the luxury of time for drying in between.



## MODEL SATURN I NSTRUCTIONS



- One unwanted compact disc (CD). (Many people get these free in the mail.)
- One 2-inch diameter styrofoam ball, carefully cut in half with a sharp knife (get adult help, please!)
- White glue
- Wooden toothpicks
- Paint brush, about 1/4 to 1/2 inch wide
- Glitter --silver, gold, black or any other colors you want
- Yarn, black or other colors (optional)
- Needle-nosed pliers (or scissors will do)
- Small paper clip
- Thread

**What to do:**

Our pictures are just suggestions. Decorate your Saturn and rings however you want. First, start with the rings:



- The CD will become Saturn's rings. Usually one side of the CD has printing on it. This is the side you will decorate with glitter.
- Try not to get glitter in the center part of the CD, where you will be gluing the styrofoam ball.
- Rinse the paintbrush out between uses, so it will stay soft and easy to use.
- Use the paintbrush to carefully spread glue on the CD. If you want to make it look like some of the rings are silver and some gold, spread the glue only where you want to put the first color, then sprinkle the glitter on the wet glue. Let it dry completely. Then repeat for the remaining areas. You can use as many different colors as you want. Just be sure to let the glue dry completely for each color before adding the next color.
- If you want to use yarn also--for example, black to show the divisions in the rings--glue it on and let it dry before adding the glitter.
- Then decorate the planet: Stick a toothpick into the flat side of each half of the styrofoam ball to give yourself a handle.
- Use the paintbrush to apply glue and glitter on the round part of each half, as you did for the CD. Let the glue dry completely.

Now put them together:



- Take the toothpick out of one of the styrofoam halves. On the other half, make sure the toothpick is stuck exactly into the center and push it in until it starts to poke out the top.
- Spread glue around the center of the decorated side of the CD. Pick up the CD and place the styrofoam half with the toothpick exactly in the center of the CD, toothpick sticking through the hole.
- Now push the other styrofoam half onto the toothpick sticking out the hole on the other side of the CD. When both halves are flat against the CD, a small part of the toothpick will be sticking out one of Saturn's "poles." Break it off with needle-nosed pliers.
- And hang it up: Open a small paper clip so it looks like this:



- Decide which half of Saturn you want to be the top. Since Saturn's axis is tilted 27 degrees, stick the paperclip into the top about ½ inch away from the center (where the toothpick comes through). Angle the paperclip so it passes through the hole in the CD and helps hold the two styrofoam halves together.

When you hang your Saturn up, and it turns in the breeze, you will see the "rings" from different angles, just as we see the real Saturn at different angles from Earth.

- Tie any length of thread to the paperclip and hang your model wherever you like.

**Other resources:**

<http://www.scoutinglinks.com/resources/daycamp/spacecamp.html>

<http://spaceplace.jpl.nasa.gov/en/kids/projects.shtml>

Clover group publication, 1998 (Camp Themes)

<http://www.kidsdomain.com/craft/seltzerrockets.html>

<http://chemistry.about.com/cs/howtos/ht/slime.htm>

[http://www.ehow.com/how\\_3866\\_grow-borax-crystals.html](http://www.ehow.com/how_3866_grow-borax-crystals.html)



**MENU**

Meal	Protein	Vegetable	Fruit	Grain	Drink	Method	Note
Friday Mug up			Honeydew Grapes	Cookies	Tea	Stove top	Parent volunteer to make frosted stars
Saturday Breakfast	Sausages		Orange slices	Cereal Pancakes	Milk Juice Water	Stove top, oven, toaster	Offer additional fruit for breakfast?
Snack	Almonds Soy nuts M&M's		Dried Fruit - Bananas Cranraisns Marshmallows	Cereal Pretzels	Water	Hunt for mix	puffed cereal mix
Lunch	Cold cuts / Cheese	Sticks Lettuce Tomato		Pitas	Juice Water		Special sauce? Humus?
Snack	Cheese		Apples	Crackers	Water Juice		What kind of crackers
Dinner  Mug up	Meat sauce Cheese	Salad	  Fruit	Spaghetti  Rice Krispie Balls	Water Juice Milk Hot chocolate	Stove top  Stove top	Dessert? Monks Dinner
Breakfast	Yogurt		Mixes fruit	Muffins	Milk Juice Water	Oven	

Friday Mug up	Saturn, Stars and Sleepy time
Saturday Breakfast	Mercury's Marvelously Maple
Saturday Lunch	Unforgettable UFO's on Uranus
Saturday Dinner	Amiable Astronaut's Munch Mutely
Saturday Mug up	Mr. Moon, Mr. Moon You are out too soon
Sunday Breakfast	Mars Makes Magnificent Muffins

## **Saturn, Stars and Sleepy time**

### **Friday Mug up**

**Honeydew**  
**Grapes**  
**Cookies**  
**Tea**  
**Hot Chocolate**

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## **Mercury's Marvelously Maple**

### **Saturday Breakfast**

**Pancakes**

**Cereal**  
**Sausages**  
**Fruit**  
**Milk**  
**Juice**  
**Water**

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**Unforgettable UFO's on Uranus**  
**Saturday Lunch**

**Cold cuts / Cheese**  
**Lettuce Tomato**  
**Pitas**  
**Veggie Sticks**  
**Juice**  
**Water**

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**Amiable Astronaut's Munch**  
**Mutely**  
**Saturday Dinner**

**Spaghetti**  
**Salad**  
**French Bread**  
**Juice**  
**Water**

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**Mr. Moon, Mr. Moon You are out  
too soon**  
**Saturday Mug up**

**Moon Balls**  
**Hot Chocolate**  
**Tea**  
**Cup a soup**

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**Mars Makes Magnificent  
Muffins**  
**Sunday Breakfast**

**Muffins**  
**Yogurt**  
**Fruit**  
**Juice**  
**Milk**  
**Water**



## CHORES/DUTIES TRACKING SHEET

Place a star under your patrols' name each time you complete a chore /duty!

Suns	Moons	Planets	Comets	Stars
<b>Leader</b> 1. 2. 3. 4. 5. 6.	<b>Leader</b> 1. 2. 3. 4. 5. 6.	<b>Leader</b> 1. 2. 3. 4. 5. 6.	<b>Leader</b> 1. 2. 3. 4. 5. 6.	<b>Leader</b> 1. 2. 3. 4. 5. 6.
1	1.	1.	1.	1.
2	2.	2.	2.	2.
3	3.	3.	3.	3.
4	4.	4.	4.	4.
5	5.	5.	5.	5.

### DUTIES

1. **Big Dippers** (Cook's Helpers): [help gather food and prepare food as well as returning it to the kitchen](#)
2. **Lil Dippers** (Dish Dashers): [Prepare washing water for dishes, clear tables after meal, wash the leaders'/adults' dishes \(girls are to wash their own dishes\).](#)
3. **Star Shiners** (Garbage grungers and grace) – [Empty 3 basins from washing, check garbages, outside garbage sweep, pick a grace.](#)
4. **Moon Maids** - (Biffy Buffers): [\(indoor facilities\) replenish toilet paper, wipe sinks, counters and toilet seats, sweep floor. If outdoor, just t.p., check Purell, wipe and sweep](#)
5. **Moon Beams** (Sweepers): [wipe tables, sweep floor in dining area, tidy up dining and craft areas.](#)

