

Supercharged Science Spaceopoly Game

This spin on the classic version teaches kids not only the plants, moons, and comets, but also how to count back change and invent new things by modeling previous successes.

This game plays exactly the same way as Monopoly, with a few substitutions (see section #5). The rules for Monopoly are identical to Spaceopoly, the board layout very similar, in fact nearly everything is the same except you're out in space! Here's what you need to do to set up your game:

1. Print out the game parts:
 - a. Board Squares: these get pasted onto your board
 - b. Deeds: these are the titles you receive for each object you purchase
 - c. Cards: there are two different decks: *Hazard* and *Community Quasar*. *Hazard cards* are Monopoly's *Chance cards*, and *Community Quasar cards* are *Community Chest cards*.
 - d. Currency: You'll want to print out several copies of each sheet so you have enough for your players.
2. Find dice:
 - a. You'll need two six-sided dice. If you roll doubles, you get another turn. If you roll doubles three times in a row, then you're in 'jail' (the *Rocket Repair Station*)
 - b. On my version of the game, we have three sets of dice (mostly for fun): two are six-sided, two are twelve-sided, and two are twenty-sided. So it's possible to lap the entire board in one roll. Here's how we use these three sets of dice:
 - c. We use the six-sided dice normally, but if you roll a 1-1, 2-2, or 3-3 (doubles), then you can use the 12-sided dice on your next roll. However, if you roll higher on your first roll, like a 4-4, 5-5, or 6-6, then you get to use the 20-sided dice on your next roll. So if you roll doubles with the lower half of the numbers, you get the 12-sided; higher-half gets the 20-sided.
3. Find Game Pieces:
 - a. You can use rocks for this part. Find one piece for every player.
 - b. In my version, I bought small models of the space station, lunar lander, Saturn V rocket, and others to serve as game pieces.
4. *Optional*: Find pieces for Space Station Satellites.
 - a. Cut out small squares of red, orange, yellow, green, and blue to serve as your Space Station Satellites. These are similar to the houses and hotels in Monopoly. One house = the red space station; two houses = orange space station... until you get to blue, which is equivalent to a hotel.
 - b. Same rules apply to the Space Station as to the hotels in Monopoly. You have to purchase all the previous levels before purchasing the next level up. You can't go straight from red to blue, but rather you must purchase the orange, yellow and green before purchasing blue level.

5. Lay out your board: Use a large sheet of cardboard, poster board, or foam core to lay out your pieces before gluing them together. Pick one corner to be GO (Start) and follow the table below on how to lay out the pieces. (You might want to open up your Monopoly Board to compare as you go along.

The main substitutions are:

- a. Jail = Rocket Repair Station
- b. Go to Jail = Malfunction
- c. Free Parking = Free Docking
- d. Chance = Hazard
- e. Community Chest = Community Quasar
- f. Utilities = Venus and Mercury (they don't have moons)
- g. Railroads = Comets

Go: Rocket Refuel Station	Go to Jail: Malfunction!	Free Docking: Deep Space Station	Malfunction!
Charon \$6,000	Oberon \$12,000	Mimas \$22,000	Triton \$30,000
Community Quasar Card Pick	Mercury \$15,000	Hazard Card Pick	Proteus \$30,000
Pluto \$8,000	Miranda \$12,000	Titan \$22,000	Community Quasar Card Pick
Black Hole Tax	Uranus \$14,000	Saturn \$24,000	Neptune \$32,000
Comets \$20,000	Comet \$20,000	Comet \$20,000	Comet \$20,000
Phobos \$10,000	Mathilde \$16,000	Ganymede \$26,000	Hazard Card Pick
Hazard Card Pick	Community Quasar Card Pick	Callisto \$26,000	Andromeda Galaxy \$50,000
Deimos \$10,000	Ceres \$16,000	Venus \$15,000	Luxury Tax: Neutron Star
Mars \$12,000	Gaspra \$18,000	Jupiter \$28,000	Whirlpool Galaxy \$40,000

Each system is a planet with major moons (with the exception of the asteroid block). For example, Jupiter has many moons, but only two on the board: Ganymede and Callisto.

Using markers or crayons, outline each block on the board with the corresponding color from Monopoly. Color the outline of the title deeds as well to make it quicker to match them up while playing the game. I would color the frame of Jupiter, Ganymede, and Callisto yellow on the board as well as the title deeds, for example.

Attach the pieces to your board with tape or glue. I covered the pieces with clear packing tape so the pieces slid over the board more easily, but you can laminate or protect your board in any way you choose.

6. When you're ready to play, place the two card decks face down on the board along with a pile of Satellites (the five colors of paper scraps), dice, and playing pieces. Deal out the currency – every person gets:
 - a. Five \$100
 - b. Five \$500
 - c. Five \$1,000
 - d. Six \$2,000
 - e. Two \$5,000
 - f. Two \$10,000
 - g. Two \$50,000
7. *Optional:* We always place a \$50,000 in the middle for free docking. And each time it needs to be replenished (because someone landed on Free Docking), then we add another \$50,000 on top. The pot gets larger and larger as the game goes on!
8. *For younger players,* we don't use the mortgage rules from Monopoly, but instead offer to trade a player's titles/deeds for the docking fees... but of course you can play as appropriate for your family.

Enjoy!

PLANET: MERCURY



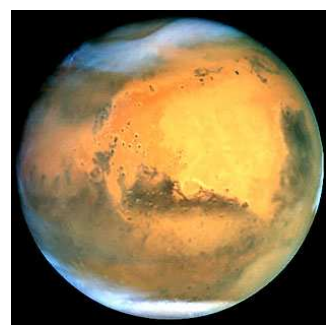
\$15,000

PLANET: VENUS



\$15,000

PLANET: MARS



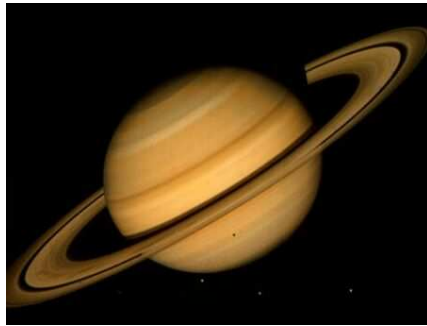
\$12,000

PLANET: JUPITER



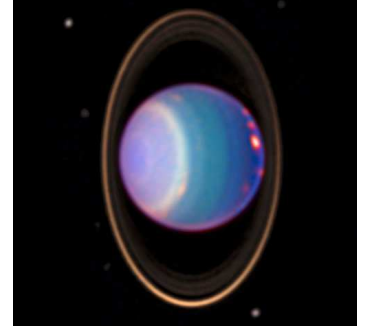
\$28,000

PLANET: SATURN



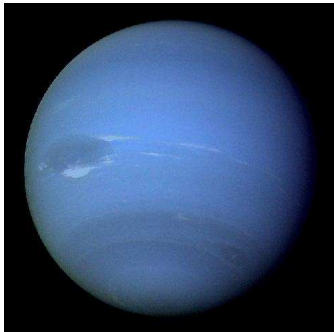
\$24,000

PLANET: URANUS



\$14,000

PLANET: NEPTUNE



\$32,000

PLANET: CHARON



\$6,000

PLANET: PLUTO



\$8,000

MOON: GANYMEDE



\$26,000

MOON: MIMAS



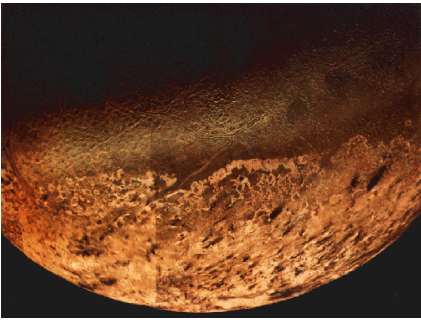
\$22,000

MOON: CALLISTO



\$26,000

MOON: TRITON



\$30,000

MOON: PROTEUS



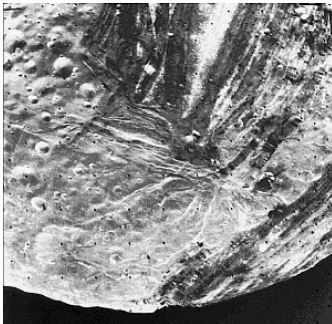
\$30,000

MOON: OBERON



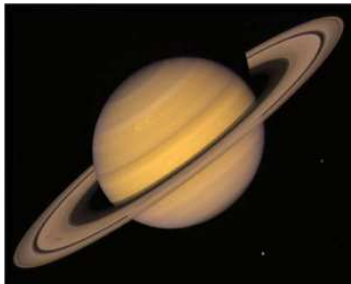
\$12,000

MOON: MIRANDA



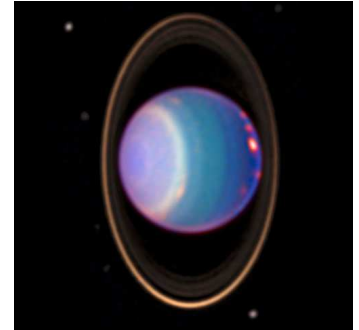
\$12,000

PLANET: SATURN



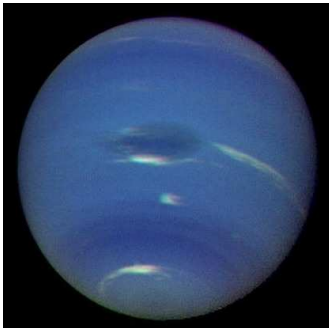
\$24,000

PLANET: URANUS



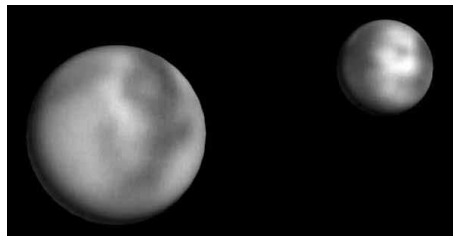
\$16,000

PLANET: NEPTUNE



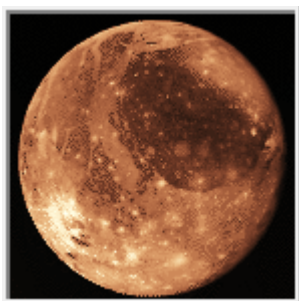
\$18,000

PLANETS: PLUTO/CHARON



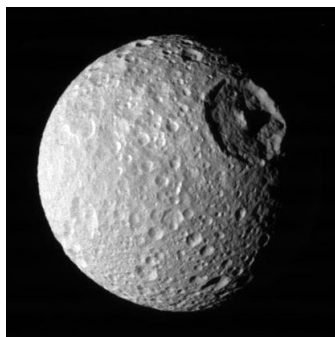
\$16,000

MOON: GANYMEDE



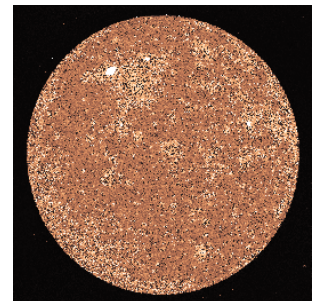
\$12,000

MOON: MIMAS



\$22,000

MOON: CALLISTO



\$12,000

COMET: HALLEY



\$20,000

COMET: WILSON



\$20,000

COMET: HOLMES



\$20,000

COMET: HALE-BOPP



\$20,000

ASTEROID: CERES



\$16,000



DEEP SPACE STATION
FREE DOCKING

GALAXY: ANDROMEDA



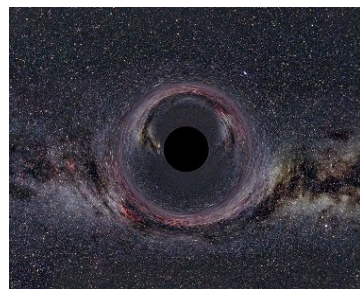
\$50,000

GALAXY: WHIRLPOOL



\$40,000

BLACK HOLE
EVENT HORIZON



Pay 10% or \$20,000

COMMUNITY QUASAR



Pick A Card

COMMUNITY QUASAR



Pick A Card

COMMUNITY QUASAR



Pick A Card

ASTEROID: GASPRA



\$18,000

ASTEROID: MATHILDE



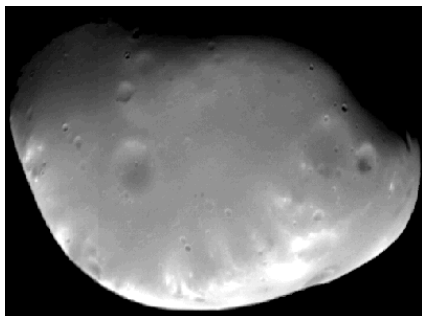
\$16,000

MOON: PHOBOS



\$10,000

MOON: DEIMOS

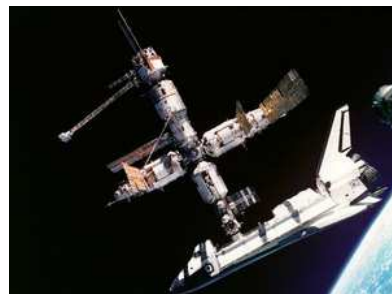


\$10,000



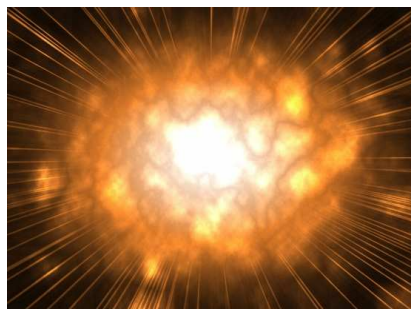
**ROCKET
REFUEL
STATION**

**COLLECT
\$20,000**



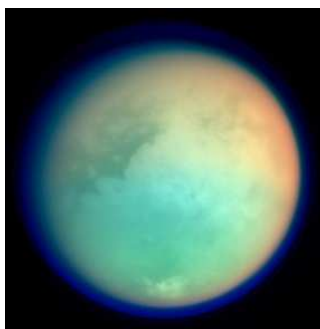
ROCKET REPAIR STATION

Roll Doubles or Pay \$5,000



**MALFUNCTION!
GO TO REPAIR STATION**

MOON: TITAN



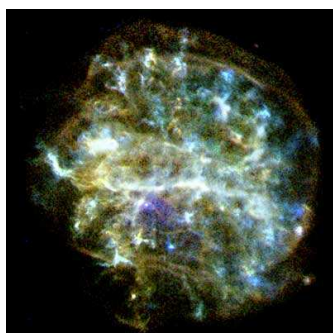
\$22,000

NEUTRON STAR TAX



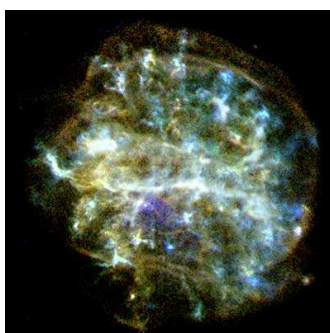
Pay \$8,000

HAZARD



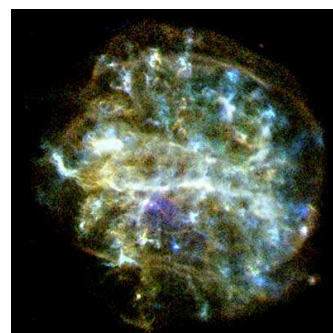
Pick A Card

HAZARD



Pick A Card

HAZARD



Pick A Card

Community Quasar

**Rocket Refuel
Gauge Errors in
Your Favor!**

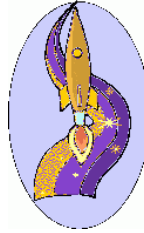
Collect \$20,000



Community Quasar

**Free Rocket Repair!
\$5,000 value**

This card may be kept
until needed or sold.



Community Quasar

Wormhole!

Advance to Rocket Refuel Station

**Collect
\$20,000**



Community Quasar

**Receive payment for
intergalactic
transport.**

Collect \$2,500



Community Quasar

White Hole!

Save on fuel while using the
gravitational field!

Collect \$2,000



Community Quasar

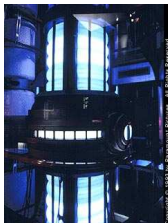
**Alert: Pay
Warp Drive
Toll Tax of
\$15,000**



Community Quasar

**From sale of old
engine parts.**

Collect \$5,000



Community Quasar

Rocket Repairs Needed!

**Go directly to the Repair Station.
Do not pass Rocket Refuel Station.
Do not collect \$20,000.**



Community Quasar

**You hit an unexpected colossal
mass of hydrogen! Gather and
convert it to fuel.**

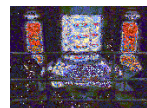
Collect \$10,000



Community Quasar

Warp core repairs needed. You
find a refurbished core at a salvage
space yard.

Pay \$10,000



Community Quasar

Fuel line ripped. Find a
replacement at the local
Space Depot.

Pay \$5,000



Community Quasar

**Win second prize in
5AU Space Race.**

Collect \$2,000



Community Quasar

Star Tours!

Collect \$5,000

from each player for
scenic intergalactic
space flight.



Community Quasar

Transport passengers across to
the Gamma Quadrant.

Collect \$10,000



Community Quasar

International Space Federation Tax

**Pay \$4,000 for
each space
station you own.**



Community Quasar

**Win first prize in
10AU Space Race.**

Collect \$7,000



Community Quasar

Transport illegal aliens across to
the Beta Quadrant.

Collect \$50,000



Community Quasar

Positron coupling failure. Find a
replacement at the local
Space Depot.

Pay \$4,000



Hazard



Advance to nearest comet and pay owner twice the docking fees to which they are otherwise entitled. If comet is unowned, you may buy it.

Hazard



Pay Space Flight Tax of \$1,500

Hazard



Wormhole!
Go back three spaces.

Hazard

Wormhole!
Advance to Saturn.



If you pass the Rocket Refuel Station, collect \$20,000.

Hazard

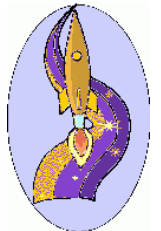
Wormhole!
Advance to Andromeda Galaxy



If you pass the Rocket Refuel Station, collect \$20,000.

Hazard

Free Rocket Repair!
\$5,000 value



This card may be kept until needed or sold.

Hazard

Wormhole!
Advance to Mars.



If you pass the Rocket Refuel Station, collect \$20,000.

Hazard

Wormhole!
Advance to Rocket Refuel Station

Collect \$20,000



Hazard



Rocket Repairs Needed!
Go directly to the Repair Station.
Do not pass Rocket Refuel Station.
Do not collect \$20,000.

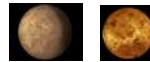
Hazard



Wormhole!
Take a ride on the Hale-Bopp!

If you pass the Rocket Refuel Station, collect \$20,000.

Hazard

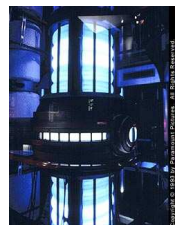


Advance to Mercury or Venus (whichever is nearest) and pay owner twice the docking fees to which they are otherwise entitled. If unowned, you may buy it.

Hazard

Old IOU debt paid up in full.

Collect \$5,000



Hazard



Advance to nearest comet and pay owner twice the docking fees to which they are otherwise entitled. If comet is unowned, you may buy it.

Hazard

You have been elected captain of the Space Race Team.

Pay each player \$5,000.

Hazard

International Space Federation Tax

Pay \$2,000 for each space station you own.



Hazard

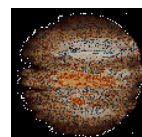
Wormhole!
Advance to Callisto.



If you pass the Rocket Refuel Station, collect \$20,000.

Hazard

Wormhole!
Advance to Jupiter.



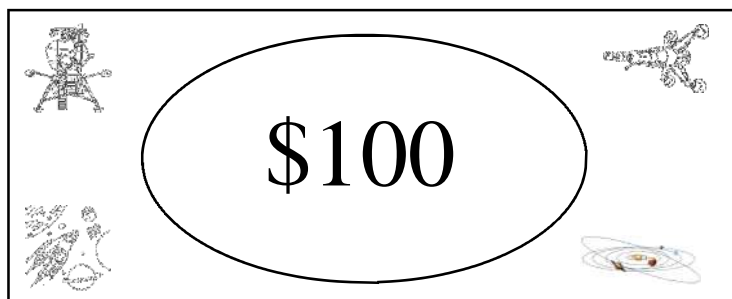
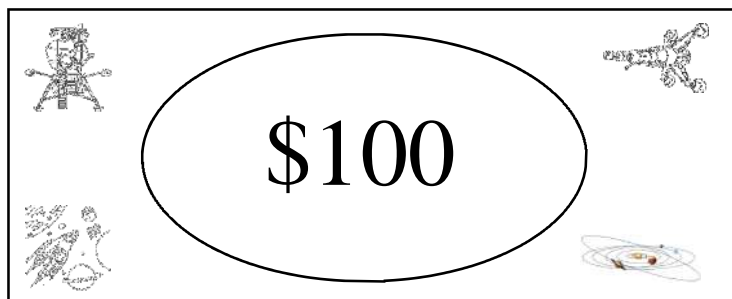
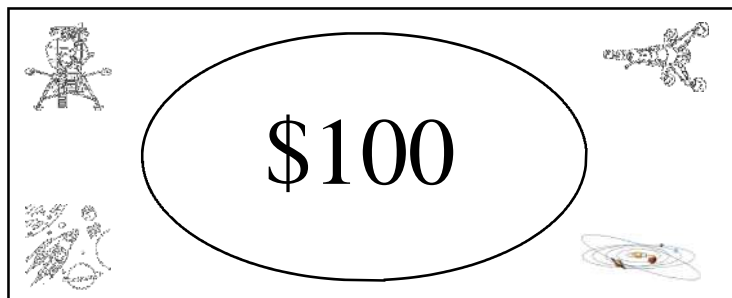
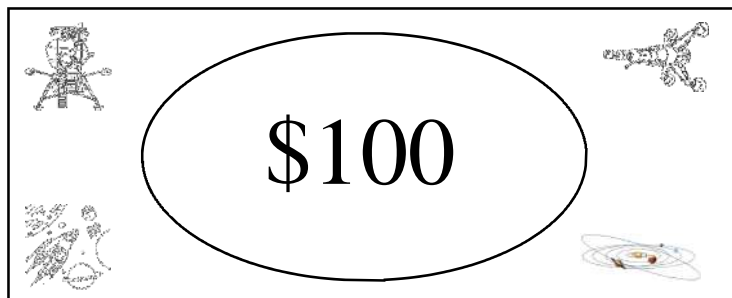
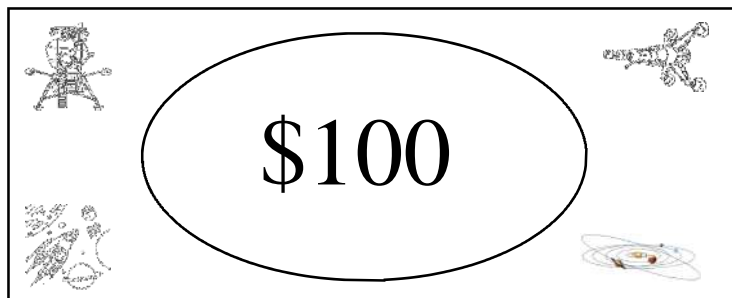
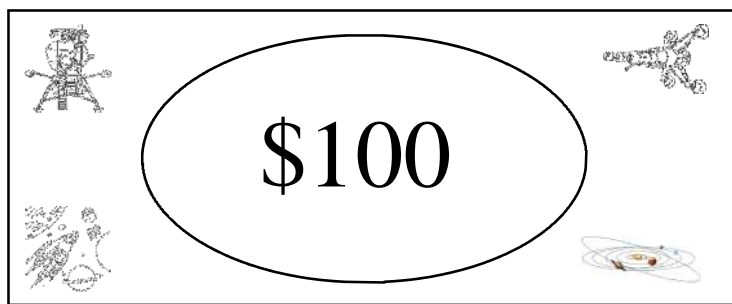
If you pass the Rocket Refuel Station, collect \$20,000.

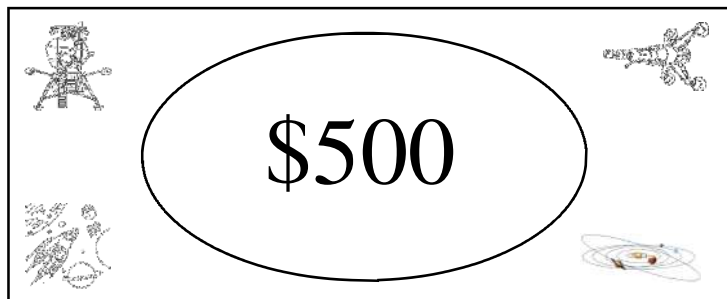
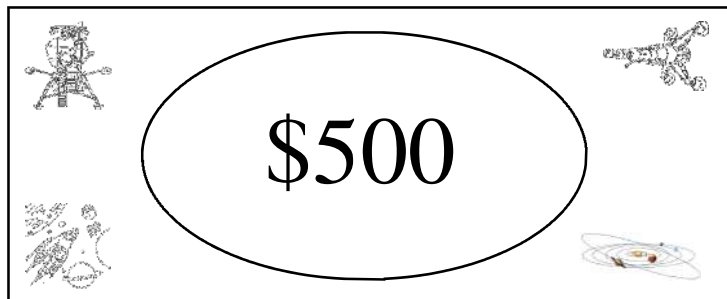
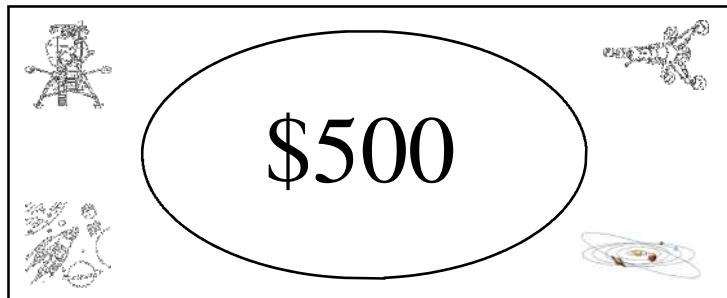
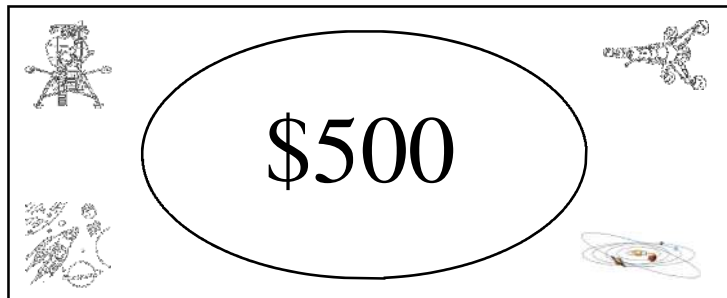
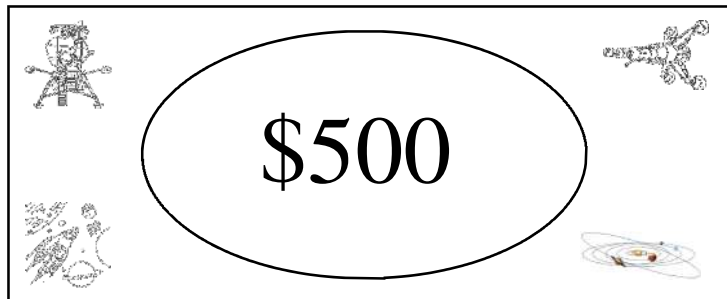
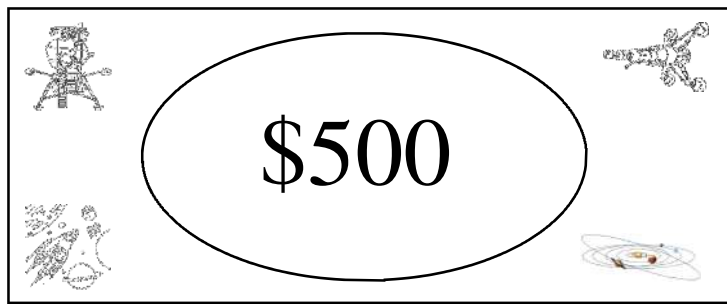
Hazard

Wormhole!
Advance to Rocket Refuel Station

Collect \$20,000

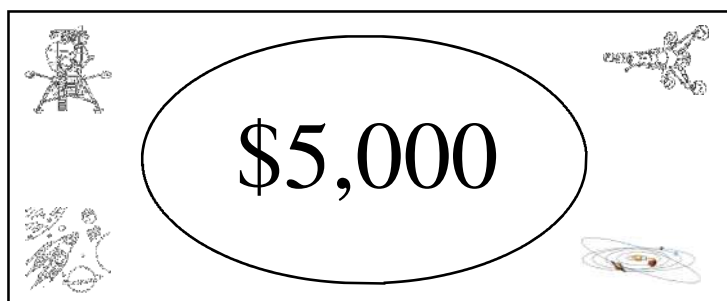


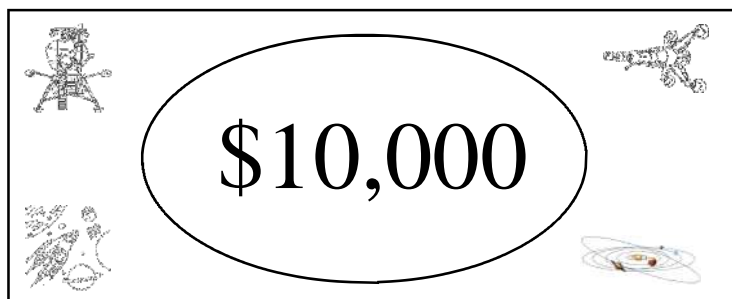
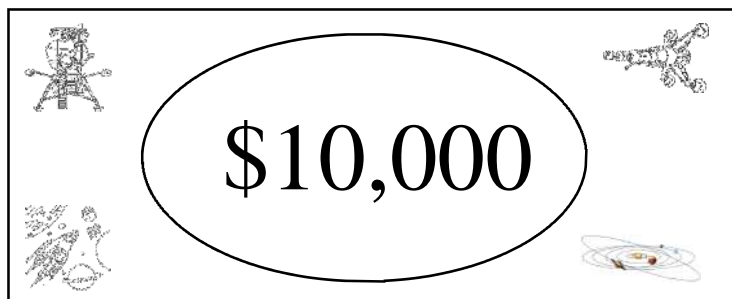
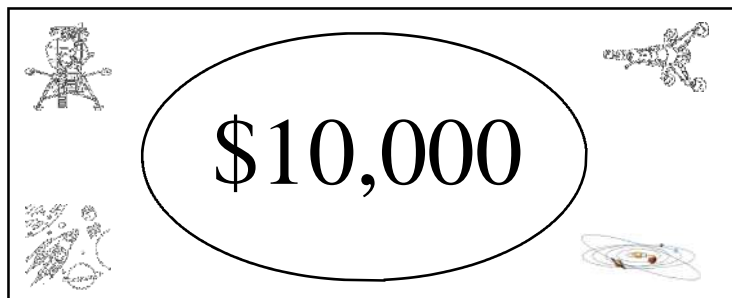
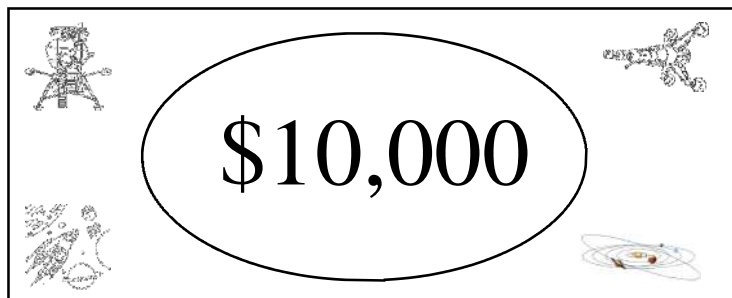
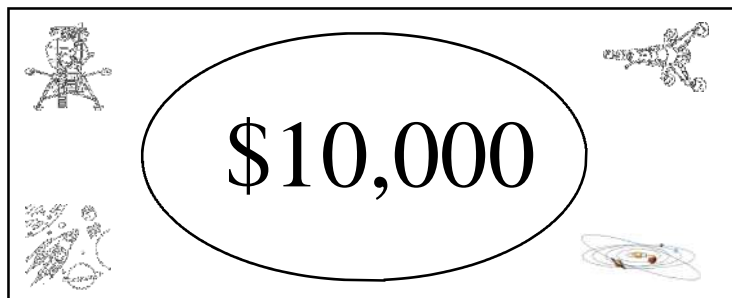
















PLANET: MERCURY

If only Mercury is owned, rent is 500X amount shown on dice.

If both Mercury and Venus are owned, rent is 1,000X amount shown on dice.

Resale Value: 50%

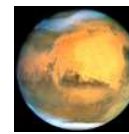


PLANET: VENUS

If only Venus is owned, rent is 500X amount shown on dice.

If both Mercury and Venus are owned, rent is 1,000X amount shown on dice.

Resale Value: 50%



PLANET: MARS

Dock Fee: \$800

With RED Space Station \$4,000
With ORANGE Space Station \$10,000
With YELLOW Space Station \$30,000
With GREEN Space Station \$45,000
With BLUE Space Station \$60,000

Space Station cost \$5,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group, (unimproved planet) dock fees are doubled.



PLANET: JUPITER

Dock Fee: \$2,400

With RED Space Station \$12,000
With ORANGE Space Station \$36,000
With YELLOW Space Station \$85,000
With GREEN Space Station \$105,000
With BLUE Space Station \$120,000

Space Station cost \$15,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group, (unimproved planet) dock fees are doubled.



PLANET: SATURN

Dock Fee: \$2,000

With RED Space Station \$10,000
With ORANGE Space Station \$30,000
With YELLOW Space Station \$75,000
With GREEN Space Station \$93,000
With BLUE Space Station \$110,000

Space Station cost \$15,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group, (unimproved planet) dock fees are doubled.



PLANET: URANUS

Dock Fee: \$1,200

With RED Space Station \$6,000
With ORANGE Space Station \$18,000
With YELLOW Space Station \$50,000
With GREEN Space Station \$70,000
With BLUE Space Station \$90,000

Space Station cost \$10,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group, (unimproved planet) dock fees are doubled.



PLANET: NEPTUNE

Dock Fee: \$2,800

With RED Space Station \$15,000
With ORANGE Space Station \$45,000
With YELLOW Space Station \$99,000
With GREEN Space Station \$120,000
With BLUE Space Station \$140,000

Space Station cost \$20,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group, (unimproved planet) dock fees are doubled.



MOON: CHARON

Dock Fee: \$200

With RED Space Station \$1,000
With ORANGE Space Station \$3,000
With YELLOW Space Station \$9,000
With GREEN Space Station \$16,000
With BLUE Space Station \$25,000

Space Station cost \$5,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group, (unimproved moon) dock fees are doubled.



PLANET: PLUTO

Dock Fee: \$400

With RED Space Station \$2,000
With ORANGE Space Station \$6,000
With YELLOW Space Station \$18,000
With GREEN Space Station \$32,000
With BLUE Space Station \$45,000

Space Station cost \$5,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group, (unimproved planet) dock fees are doubled.



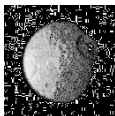
MOON: GANYMEDE

Dock Fee: \$2,200

With RED Space Station \$11,000
With ORANGE Space Station \$33,000
With YELLOW Space Station \$80,000
With GREEN Space Station \$98,000
With BLUE Space Station \$115,000

Space Station cost \$15,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group, (unimproved moon) dock fees are doubled.



MOON: MIMAS

Dock Fee: \$1,800

With RED Space Station \$9,000
With ORANGE Space Station \$25,000
With YELLOW Space Station \$70,000
With GREEN Space Station \$88,000
With BLUE Space Station \$100,000

Space Station cost \$15,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group, (unimproved moon) dock fees are doubled.



MOON: CALLISTO

Dock Fee: \$2,200

With RED Space Station \$11,000
With ORANGE Space Station \$33,000
With YELLOW Space Station \$80,000
With GREEN Space Station \$98,000
With BLUE Space Station \$115,000

Space Station cost \$15,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group, (unimproved moon) dock fees are doubled.



COMET: HALLEY

Dock Fees:

When 1 Comet is owned: \$2,000
 When 2 Comets are owned: \$5,000
 When 3 Comets are owned: \$10,000
 When 4 Comets are owned: \$20,000

Comets may not have orbiting space stations.
 Resale Value: 50%.



COMET: WILSON

Dock Fees:

When 1 Comet is owned: \$2,000
 When 2 Comets are owned: \$5,000
 When 3 Comets are owned: \$10,000
 When 4 Comets are owned: \$20,000

Comets may not have orbiting space stations.
 Resale Value: 50%.



COMET: HOLMES

Dock Fees:

When 1 Comet is owned: \$2,000
 When 2 Comets are owned: \$5,000
 When 3 Comets are owned: \$10,000
 When 4 Comets are owned: \$20,000

Comets may not have orbiting space stations.
 Resale Value: 50%.



COMET: HALE-BOPP

Dock Fees:

When 1 Comet is owned: \$2,000
 When 2 Comets are owned: \$5,000
 When 3 Comets are owned: \$10,000
 When 4 Comets are owned: \$20,000

Comets may not have orbiting space stations.
 Resale Value: 50%.



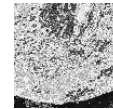
ASTEROID: CERES

Dock Fee: \$1,400

With RED Space Station \$8,000
 With ORANGE Space Station \$22,000
 With YELLOW Space Station \$60,000
 With GREEN Space Station \$80,000
 With BLUE Space Station \$100,000

Space Station cost \$10,000 each.
 Resale Value: 50%.

If player owns all celestial bodies in a group,
 (unimproved moon) dock fees are doubled.



MOON: MIRANDA

Dock Fee: \$1,000

With RED Space Station \$5,000
 With ORANGE Space Station \$15,000
 With YELLOW Space Station \$45,000
 With GREEN Space Station \$63,000
 With BLUE Space Station \$75,000

Space Station cost \$15,000 each.
 Resale Value: 50%.

If player owns all celestial bodies in a group,
 (unimproved moon) dock fees are doubled.



GALAXY: WHIRLPOOL

Dock Fee: \$3,500

With RED Space Station \$17,000
 With ORANGE Space Station \$50,000
 With YELLOW Space Station \$110,000
 With GREEN Space Station \$130,000
 With BLUE Space Station \$150,000

Space Station cost \$20,000 each.
 Resale Value: 50%.

If player owns all celestial bodies in a group,
 (unimproved planet) dock fees are doubled.



GALAXY: ANDROMEDA

Dock Fee: \$5,000

With RED Space Station \$20,000
 With ORANGE Space Station \$60,000
 With YELLOW Space Station \$140,000
 With GREEN Space Station \$170,000
 With BLUE Space Station \$200,000

Space Station cost \$20,000 each.
 Resale Value: 50%.

If player owns all celestial bodies in a group,
 (unimproved moon) dock fees are doubled.



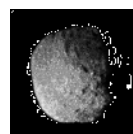
MOON: TRITON

Dock Fee: \$2,600

With RED Space Station \$13,000
 With ORANGE Space Station \$39,000
 With YELLOW Space Station \$90,000
 With GREEN Space Station \$110,000
 With BLUE Space Station \$128,000

Space Station cost \$20,000 each.
 Resale Value: 50%.

If player owns all celestial bodies in a group,
 (unimproved moon) dock fees are doubled.



MOON: PROTEUS

Dock Fee: \$2,600

With RED Space Station \$13,000
 With ORANGE Space Station \$39,000
 With YELLOW Space Station \$90,000
 With GREEN Space Station \$110,000
 With BLUE Space Station \$128,000

Space Station cost \$20,000 each.
 Resale Value: 50%.

If player owns all celestial bodies in a group,
 (unimproved moon) dock fees are doubled.



MOON: OBERON

Dock Fee: \$1,000

With RED Space Station \$5,000
 With ORANGE Space Station \$15,000
 With YELLOW Space Station \$45,000
 With GREEN Space Station \$63,000
 With BLUE Space Station \$75,000

Space Station cost \$10,000 each.
 Resale Value: 50%.

If player owns all celestial bodies in a group,
 (unimproved moon) dock fees are doubled.



ASTEROID: GASPRA

Dock Fee: \$1,600

With RED Space Station \$8,000
With ORANGE Space Station \$22,000
With YELLOW Space Station \$60,000
With GREEN Space Station \$80,000
With BLUE Space Station \$100,000

Space Station cost \$10,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group,
(unimproved asteroid) dock fees are doubled.



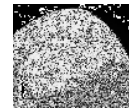
ASTEROID: MATHILDE

Dock Fee: \$1,400

With RED Space Station \$7,000
With ORANGE Space Station \$20,000
With YELLOW Space Station \$55,000
With GREEN Space Station \$75,000
With BLUE Space Station \$95,000

Space Station cost \$10,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group,
(unimproved asteroid) dock fees are doubled.



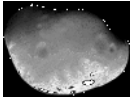
MOON: PHOBOS

Dock Fee: \$600

With RED Space Station \$3,000
With ORANGE Space Station \$9,000
With YELLOW Space Station \$27,000
With GREEN Space Station \$40,000
With BLUE Space Station \$55,000

Space Station cost \$5,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group,
(unimproved moon) dock fees are doubled.



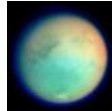
MOON: DEIMOS

Dock Fee: \$600

With RED Space Station \$3,000
With ORANGE Space Station \$9,000
With YELLOW Space Station \$27,000
With GREEN Space Station \$40,000
With BLUE Space Station \$55,000

Space Station cost \$5,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group,
(unimproved moon) dock fees are doubled.



MOON: TITAN

Dock Fee: \$1,800

With RED Space Station \$9,000
With ORANGE Space Station \$25,000
With YELLOW Space Station \$70,000
With GREEN Space Station \$88,000
With BLUE Space Station \$100,000

Space Station cost \$15,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group,
(unimproved moon) dock fees are doubled.



GALAXY: WHIRLPOOL

Dock Fee: \$3,500

With RED Space Station \$17,000
With ORANGE Space Station \$50,000
With YELLOW Space Station \$110,000
With GREEN Space Station \$130,000
With BLUE Space Station \$150,000

Space Station cost \$20,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group,
(unimproved planet) dock fees are doubled.



GALAXY: ANDROMEDA

Dock Fee: \$5,000

With RED Space Station \$20,000
With ORANGE Space Station \$60,000
With YELLOW Space Station \$140,000
With GREEN Space Station \$170,000
With BLUE Space Station \$200,000

Space Station cost \$20,000 each.
Resale Value: 50%.

If player owns all celestial bodies in a group,
(unimproved moon) dock fees are doubled.