

In-situ resource utilization (ISRU) is the mining and use of space resources.

ISRU is an asteroid mining game for 3-4 players lasting 45-75 minutes.

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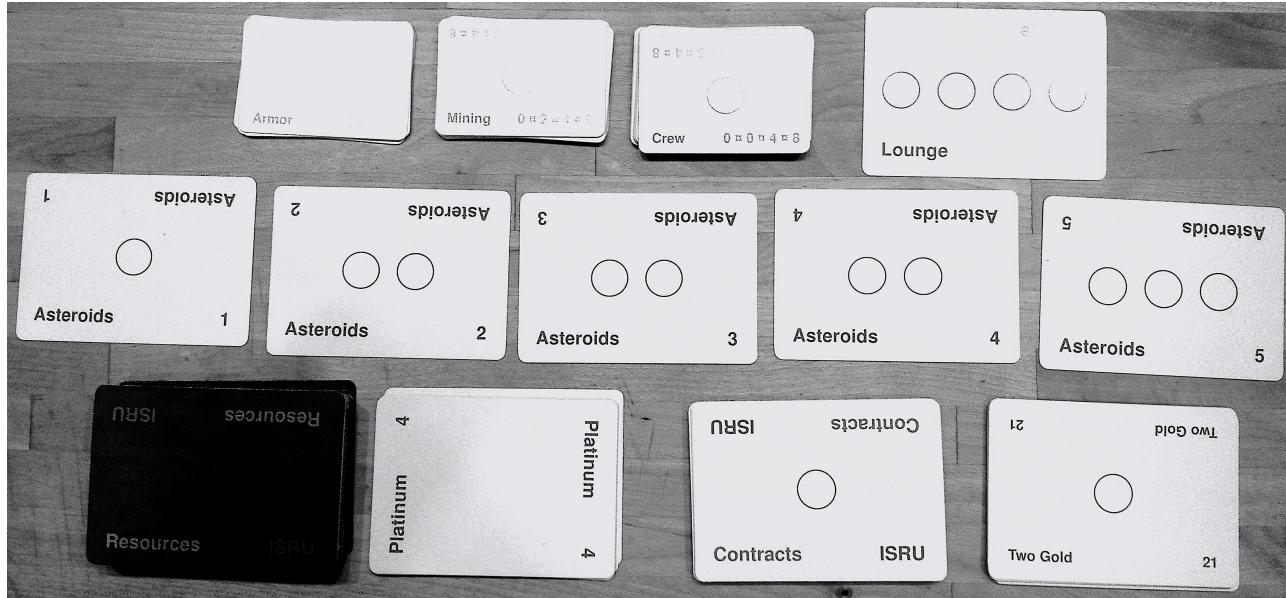
It was only a matter of time before somebody started snatching up them asteroids. But don't be fooled think'n they can do it safe like. Risk comes with reward though, least til MegaCorp buys the rights... Best strike while the iron's hot, welcome to the asteroids!

Overview

Balance mining, upgrading, and contracts to earn points until contracts run out!

- **Setup:** Setup shared locations and distribute components to players.
- **Rounds:** Rounds contain many actions and then a **Refresh**.
 - **Actions:** Players place crew disks to take actions or pass.
 - **Asteroids:** Take a chance to gain resources.
 - **Reserve Contracts:** Get more options of contracts to fulfill for points.
 - **Fulfill Contracts:** Trade resources for points.
 - **Pass:** Avoid risk or expense but get no more actions for the round.
 - **Upgrades:** Trade resources for improved capabilities.
 - **Refresh:** Retrieve crew disks, reveal new contracts, and pass first player rocket.
- **Game End:** The final round begins when no contracts remain after **Refresh**.
- **Scoring:** Players calculate their scores to find the winner.

Shared Setup



- Gather upgrades by type (*Armor*, *Crew*, *Mining*).
- Give each player two *Crew* upgrades and one *Mining* upgrade.
- Gather crew disks, each player should choose a color and take two.
- First player will be whomever has spent the least time on Earth (or choose how you like).
- First player: take one *Copper* and the first player rocket.

- Second player in clockwise order: take one *Silver*.
- Third player in clockwise order: take one *Copper* and one *Silver*.
- Fourth player in clockwise order: take two *Copper* and one *Silver*.
- Shuffle remaining resources and form a draw pile near the asteroids.
- Shuffle contract cards and deal three to each player.
- Players may discard from these contracts, but must keep at least one each.
- Arrange the asteroids by their number from lowest to highest.

Rounds

Actions

Starting with the first player, take turns in clockwise order, playing actions or passing. To play an action, place a crew disk on an empty action circle and follow the instructions for that location. To pass, place all your remaining crew disks on the *Lounge* location. The next player in clockwise order with remaining crew disks will take their turn. When all crew disks have been placed, the round ends. **Refresh** and begin the next round.

Asteroids

Getting out to the frontier may have been a struggle, but out in them asteroids it gets real sketchy. Insurance can save you when disaster strikes, and believe me it will. They'll tow your ship's bits in to get patched up, but not your cargo... So keep your eyes open when chasin' them big scores.

- Place a crew disks on the next open action circle of the lowest available asteroid.
- Roll the die, add your number of *Armor* cards and compare:
- If your total is greater than the number on the asteroid:
 - You successfully mined! Draw resources equal to your number of *Mining* cards.
 - If resources run out, shuffle discarded resources to form a new draw pile.
- If your total is less than or equal to the number on the asteroid:
 - You crashed! Discard all of your resources.
 - Place your remaining crew disk on open action circles starting with the lowest number asteroid.

David places one of his crew disks on the first asteroid space. He rolls a 4, which beats the 2 on the asteroid. He draws one resource card for his one mining card.

Susan places one crew disk on the next asteroid space. She rolls a 3, which only ties the 3 on the asteroid. Armor may have added to her roll, but she has none and crashes. She places her remaining crew disk on the next available action circle and discards her resources. She will have to wait until next round to take further actions.

Reserve Contracts

Contracts get resources to people who'll pay good for 'em, but miss too many deliveries and you'll be outta business.

- Draw 3 contract cards and place a crew disk in their place.
- From the drawn contracts, choose at least one to add to your reserved contracts.
- Be careful, when the game ends remaining reserved contracts reduce your score.

Morgan draws three contracts and places a crew disk on the contract pile. He draws 'Copper + Silver', 'Two Gold', and 'Three Silver'. He decides to take a risk keeps 'Three Silver' as it is worth the most points. He decides not take too many contracts at once though, and discards 'Copper + Silver' and 'Two Gold'.

Fulfill Contracts

Promises are well and good, but no rest for the wicked; least not until you deliver.

- When the game ends your fulfilled contracts will be added to your score.
- Reveal one of your reserved contracts and pay the matching resources to place your crew disk on it.

Teresa previously drew a 'Silver + Gold' contract and has both *Silver* and *Gold*. She reveals the contract, discards the matching resources and places a crew disk on it. When the game ends she will have an additional fourteen points.

Lounge

If you can't stand the heat, sometimes you just as well stay outta the kitchen.

- Passing allows you to avoid risky or expensive actions.
- Place all of your remaining crew disks onto an empty Lounge action circle.
- You will take no further actions this round, but will play as normal again in subsequent round.

Morgan has resources in hand which he hopes to use to fulfill his valuable Three Silver reserved contract. He sees the asteroids have grown risky late in the round. Since he does not want to spend or risk these resources nor take another unfulfilled contract, he passes by placing his remaining crew disks on to an empty Lounge action circle and hopes that his caution will pay off.

Upgrades

That hunk-a-junk might get you out and back, but you best visit the mechanics if you wanna be major league.

- There are several available upgrades, each providing different bonuses:
 - *Armor*: Add one to your asteroids die roll for each armor upgrade card.
 - *Crew*: Use one crew disks each round for each crew upgrade card.
 - *Mining*: Draw one resource for each mining upgrade card when succeeding on asteroids.
- Pay the cost on the upgrade card to collect it and place your crew disk in its place.
- Costs are for the first, second, third, and forth upgrade of this type that you purchase.
- You may pay by discarding any combination of resources from your hand, but receive no change.
- Upgrades are collected immediately and start benefitting you right away.
- Each type (*Armor*, *Crew* or *Mining*) may only be used by one player per round.
- If a type of upgrades runs out, that upgrade remains unavailable for the rest of this game.

David decides to upgrade his Mining ability. He has his initial mining upgrade, so he must pay the second cost of 2. He pays a silver from his hand, takes a Mining card and places a crew disk. He will draw one additional resource when succeeding on asteroids for the rest of the game and no one else may upgrade mining this round.

Susan decides to play it safe after crashing and upgrade Armor. The first Armor only costs 1, but the cheapest resource she has is a silver. She decides to pay this, losing the change, takes an Armor card and places a crew disk. She will add one to her die rolls for the rest of the game and no one else may upgrade mining this round.

Teresa also decides to upgrade, but Armor and Mining are taken so Crew is her only option. With two starting Crew, she must pay the third cost of 4. She pays a gold and a copper together, takes a Crew card and places a crew disk. She will have this extra crew disk to use for the rest of the game and no one else may upgrade crew this round.

Refresh

- If the contracts do not have a crew disk on them, discard the next three contracts face up.
- All players recollect the crew tokens they used last turn.
- Pass the first player rocket clockwise to the next player.
- If the contract draw pile is empty, the next round will be the final round of the game.

Game End

It's been fun, but all good things must end. You did a smidge too well, and MegaCorp got interested. They snatched up rights faster than a speeding asteroid. Thanks be, there's more asteroids, so maybe we'll see you again real soon.

If the contract draw pile is empty after **Refresh**, play one final round, then proceed to scoring.

Scoring

Players add the value of their fulfilled contracts and remaining resources together, and then subtract reserved contracts to get their final score. The player with the highest score is the winner. In the event of a tie the player with the most fulfilled contracts is the winner. If there is still a tie, play again at the next asteroid field!

Final Score = resources + fulfilled contracts - reserved contracts

Components: die; first player rocket, 4x4 crew disks (blue, green, orange, purple); 6x Asteroids (1-5); 24 Contracts 3x(Copper + Silver, Silver + Gold, Silver + Platinum, Copper + Gold + Platinum, Silver + Gold + Platinum, Two Gold, Three Copper, Three Silver, Four Copper), 60x Resources (21x Copper, 17x Silver, 13x Gold, 9x Platinum); 33x Upgrades (15x Crew, 11x Mining, 7x Armor)