• Subsequent research upgrades on the same phase action work the same way. Each phase action can be upgraded three times.

EXAMPLE TURN

	AM	BUY	MAKE	SELL	PM
0	10	- 5		+ 6	= 11
✨	0	+ (- 1		= 0
4	0	+ 2	- 1		= (
쓿	0	+ 0	- 0		= O
∷	0	+ 0	- 0		= 0
ò	0		+ (- 1	= 0
=	0		+ 0	- 0	= 0
	0		+ 0	- 0	= 0
Ø	12	- 2	- 1	- 2	= 8

1. AM

Started the turn with \$\omega \times 10\$ and \$\omega \times 12\$

2. **BUY**

Spent **□**×5 to buy **③**×1 and **□**)×2 using **②**×2

3. MAKE

Made 3×1 using 2×1 , 4×1 , and 2×1

4. SELL Sold **3**×1 for **⊙**×6 using **⊙**×2

5. **PM**

more than enough for a research upgrade

ENDING A TURN

When your turn is done, hand the die to the next player so they can start their turn.

STARTING A NEW TURN

The values in the PM column carry over to the empty cells in the next turn's AM column, as denoted by the → prefix.

The (a) cells, however, are *not* empty; you have to use the values provided.

For skipped turns, fill the --> AM cells on the next playable turn from the PM cells in the previously played turn.

END OF THE GAME

The player at the end with the most money wins. Unused parts and unsold widgets count for nothing. only money. In the case of a tie, the player with the fewest burnouts wins.

SOLO MODE

Solo play is solitaire. Beat your best score.

ICON GLOSSARY

PARTS









Enclosure WIDGETS







OTHER







Money

Opportunity

CREDITS

Hardware Hustle was designed by Oskitone, maker of DIY electronic musical instruments and soldering kits. Please consider buying your next synthesizer project from oskitone.com.

This game is published under a CC BY-SA 4.0 license. Find its source code at github.com/oskitone/hardware hustle

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HARDWARE HUSTLE

prototype_draft_28e6ec3_231231

RULES

INTRODUCTION

Hardware Hustle is a tabletop, roll-and-write resource management game about sustainably running a small hardware business.

For 1+ players. Ages 10+. ~20min to play.

GAME OVERVIEW

Your goal is to profit without burning out. You have six turns to buy parts to make widgets, make widgets from parts, then sell widgets for money to buy more parts, and so on.

Each of those actions takes opportunity ((?)), which depletes as the game progresses. At the end of each turn, you can attempt a research upgrade to reduce future (2) costs.

The six turns are miniature spreadsheets, and the game ends when they're all filled out. The player at the end with the most money wins.

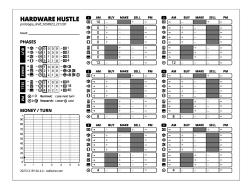
COMPONENTS

Each player will need:

- Hardware Hustle game sheet
- Six-sided die or "Roll Table" sheet
- Calculator or scratch paper for math (optional)

GAME SETUP

Fill out the "Name" line in the top left of the game sheet, then familiarize yourself with the rest of its layout: Phases table, Money/Turn graph, and six turn spreadsheets.



The player who rolls the second highest die goes first, then proceed clockwise.

HOW TO PLAY

The spreadsheet's rows are grouped into money (🖸), parts (🚱 🗘 ಿ 🔝), widgets (🗟 📰 🖦), and opportunity ((>).

And its five columns are phases that you fill out from left to right during your turn.

1. AM

Take stock of what you have and need

Buy parts (今 4) 差 []:) using o and ②

3. MAKE

Make widgets (▮ 📰 🖦) using parts and 📀

4. SELL

Sell widgets for **⑤** using **⑥**

5. **PM**

Use remaining (a) to research or lose next turn if is negative

(Refer to the Example Turn on the back page for a quick glimpse of the rules in action and an *Icon Glossary* that says what the icons are called.)

1. AM

You begin each turn by taking stock of what you have and what you need at the beginning of the day.

4/4 1/4 For the game's first turn, there's nothing to do here besides note the starting pre-filled values. You have $\mathbf{S} \times 10$ and $\mathbf{S} \times 12$, and you need basically everything else.

(Later turns will have empty cells to fill out, but there still won't be any decision-making. For that reason, AM is not listed in the Phases table on the left of your game sheet.)

2. BUY

Before you can make any money selling widgets, you've got to spend money buying their parts. Parts cost **a** and **a**, as listed in the Phases table:

В	+🔊 -🗷	0	0	0	0	- 1
У	+4) -3	1	0	0	0	- 10 2
	+≋ -⊗	2	1	0	0	- 13 3
	+ 📗 – 🐼			1	0	-04

The \odot costs are a table of values, but, for all the phases of your first turn, you'll only use the ones in the first column with the dark outline. To buy a \odot , you need \odot ×0 and \odot ×1; to buy a \odot) you need \odot ×1 and \odot ×2; etc. You'll revisit \odot costs in the PM phase a little later.

To complete the Buy phase:

1. Roll:

- Roll a die. Its value is the *maximum* ② you can spend buying this turn.
- 2. **Write:** In the Buy column, write the values for the total **②** cost, the parts you bought, and the total **③** they used.

Notes:

You can buy as many or as few parts as you
want and even multiples of the same part, as
long as you have the required ② and ⑤. (The
sum ③ must be less than or equal to your roll,
and the sum ⑥ must be less than or equal to
what you have in the AM column.)

- You can also choose to buy nothing and skip this phase, though that's a gutsy move on your first turn!
- Cells are prefixed by their mathematical operation. You're losing
 a and
 o, so those cells have a -. You're gaining parts, so they have a +. The same -/+ signs are in the Phases table.
- Unused cells have a gray background to mark that they're skipped.
- Cells with no change can be crossed out or filled with 0.
- You can spend less than you roll, but you can't spend more. You also can't spend more than you have available.

3. MAKE

Now you'll use the parts you bought to make widgets you can sell. The Phases table lists the widgets you can make, their outlined ② costs, and the parts that they will use:

To complete the Make phase:

1. Roll:

- Roll a die. Its value is the *maximum* (3) you can spend making this turn.
- 2. **Write:** In the Make column, write the values for the parts you used, the widgets you made, and the total ② they used.

You can make as many or as few widgets as you want, provided you have the required parts and ⊙. In later turns, you can use parts purchased in previous turns.

4. SELL

If you made any widgets, now's a fine time to sell them so you have **a** for the next turn's Buy phase.

Notice how the Phases table for Sell has you losing widgets but gaining **o**:



To complete the Sell phase:

1. Roll:

- Roll a die. Its value is the *maximum* ② you can spend selling this turn.
- 2. **Write:** In the Sell column, write the values for the **(a)** you made, the widgets you sold, and the total **(a)** they used.

Sell as many or as few widgets as you want, provided you have the required widgets and ②. In later turns, you can sell widgets made in previous turns.

5. PM

Whew! It's time to wrap up your workday and end your turn.

To complete the PM phase:

- 1. **Tally:** Complete each row's equation into the final column prefixed with =.
- 2. Resolve (>):
- If
 is negative, you suffer burnout and lose the entire next turn to rest.
- Otherwise, roll for research upgrade. Its value is the ② cost it would take to upgrade one of the previous three phases' actions.
- 3. **Plot:** Draw a dot on the "Money/Turn" graph at your new **(a)** total, then draw a line connecting it to the previous dot.

BURNOUT

You've spent more ⊙ than you had available and have to spend the whole next day recuperating. Hope it was worth it.

Cross out the entire next turn's spreadsheet. You cannot do any of its phases.

RESEARCH UPGRADE

Did you roll less than or equal to your remaining **②** ? Nice! Your research succeeded. Circle the PM column's **③** cell to mark its success; otherwise cross it out for failure:

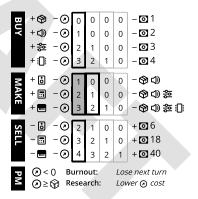
Success: 5

Failure

re: = 2

Recall how you've only been using the first column of ② values with the dark outline in the Phases table. If your research upgrade was successful, choose *one* phase action (Buy, Make, or Sell) to spend it on, then shade in its outlined column and outline the next values to its right.

As an example, here's what it would look like after a successful research upgrade to Make:



Everything in Make is now **⊗**×1 cheaper. The non-researched action's **⊘** costs in Buy and Sell remain unchanged.

Notes:

- PM's ⊗ roll for research upgrade is used differently than the ⊗ roll in the other phases.
 For Buy/Make/Sell, it's a maximum that you want to roll high; for research, it's a minimum that you want to roll low.
- Because you can't roll higher than six, ending a turn with ⊗×6 or higher means your research attempt automatically wins.

3/4

2/4