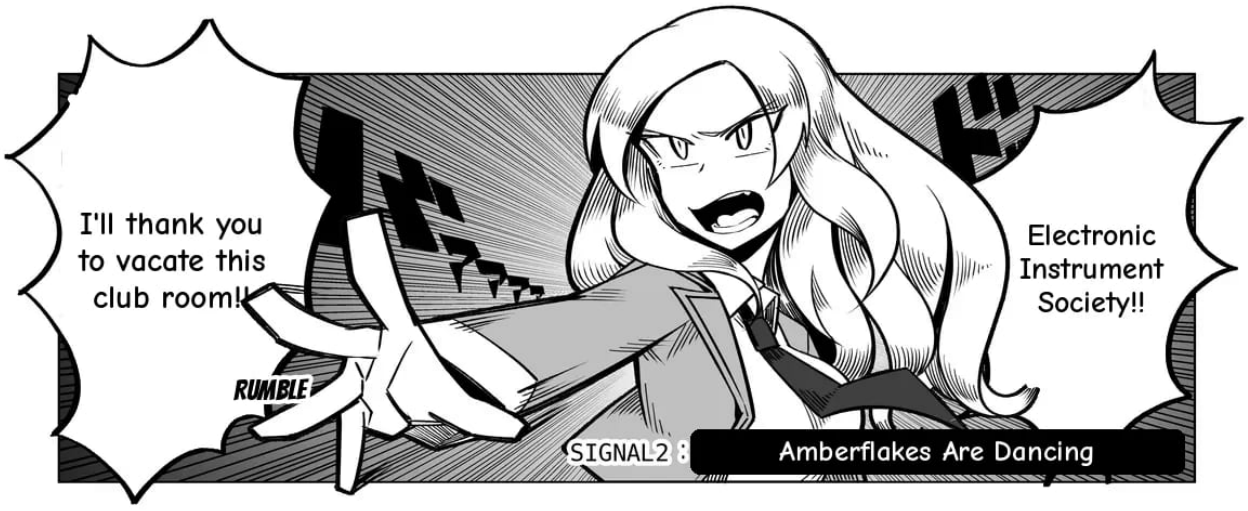
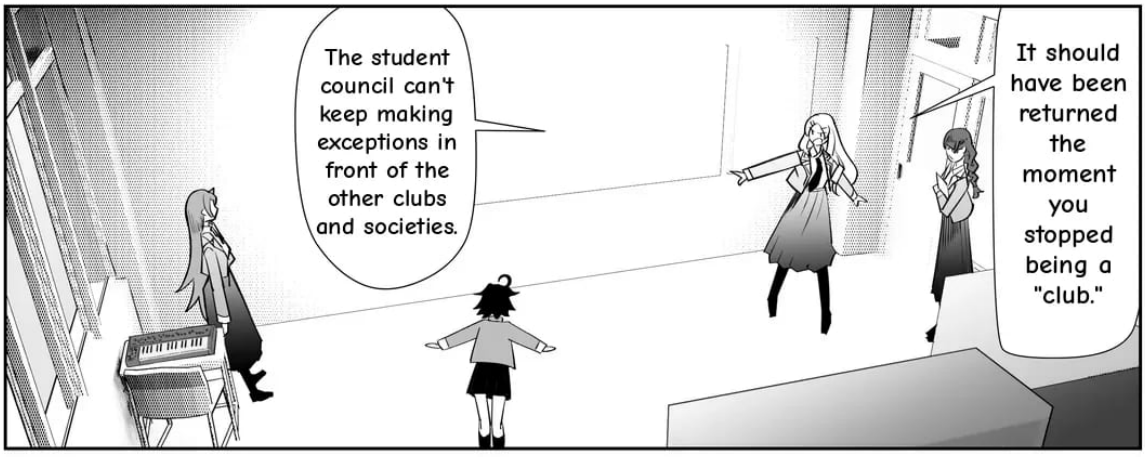
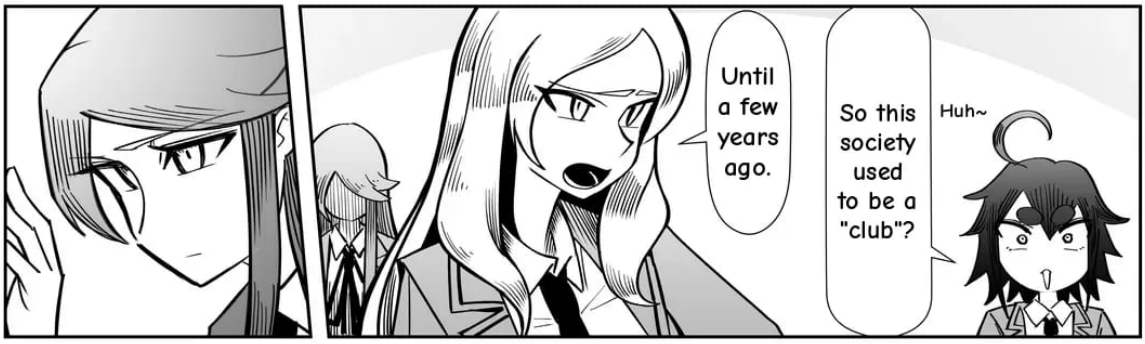
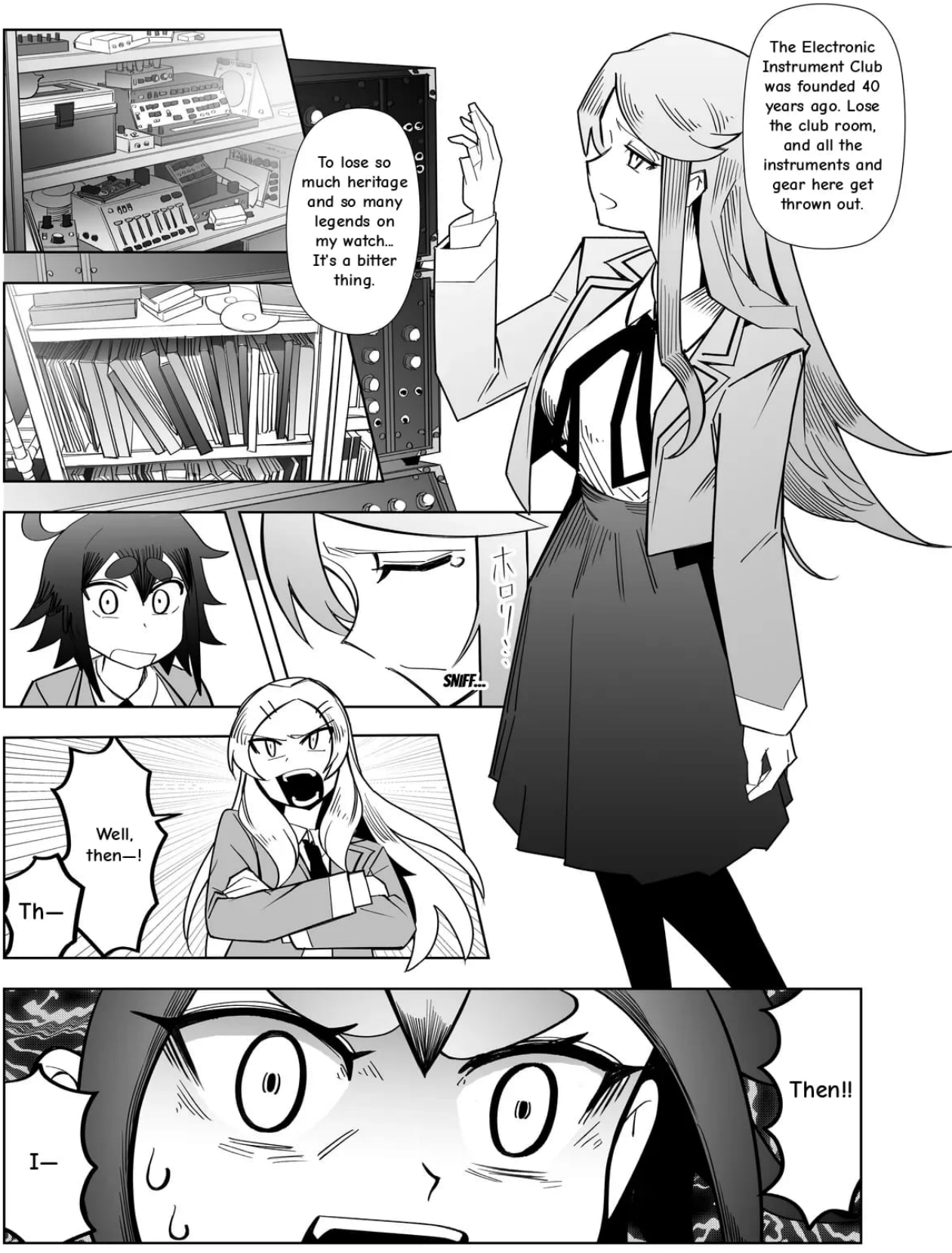

I'll thank you to vacate this club room!!
RUMBLE
Electronic Instrument Society!!
SIGNAL2 : Amberflakes Are Dancing


Wh-what do you mean!?


The student council can't keep making exceptions in front of the other clubs and societies.
It should have been returned the moment you stopped being a "club."

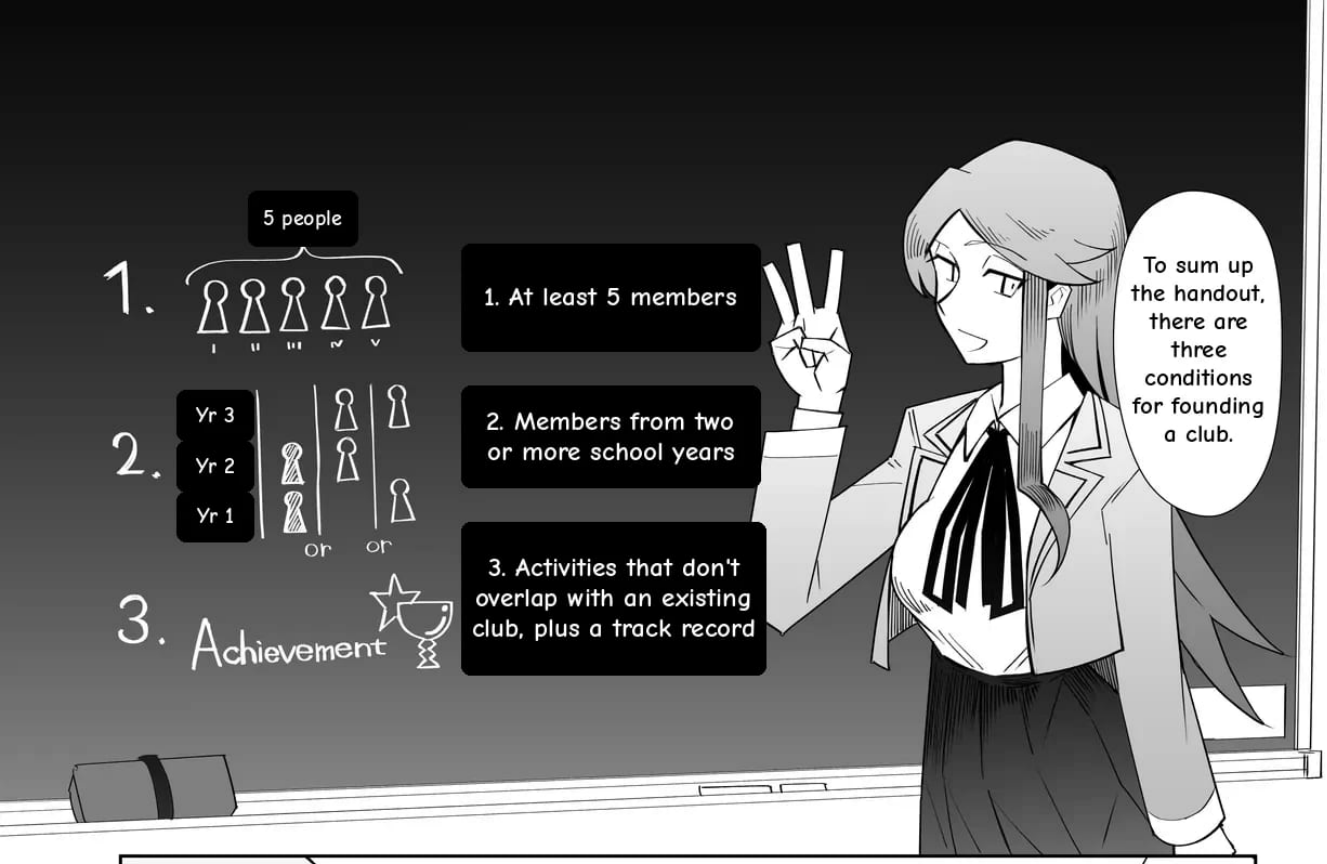

Until a few years ago.
So this society used to be a "club"?
Huh~

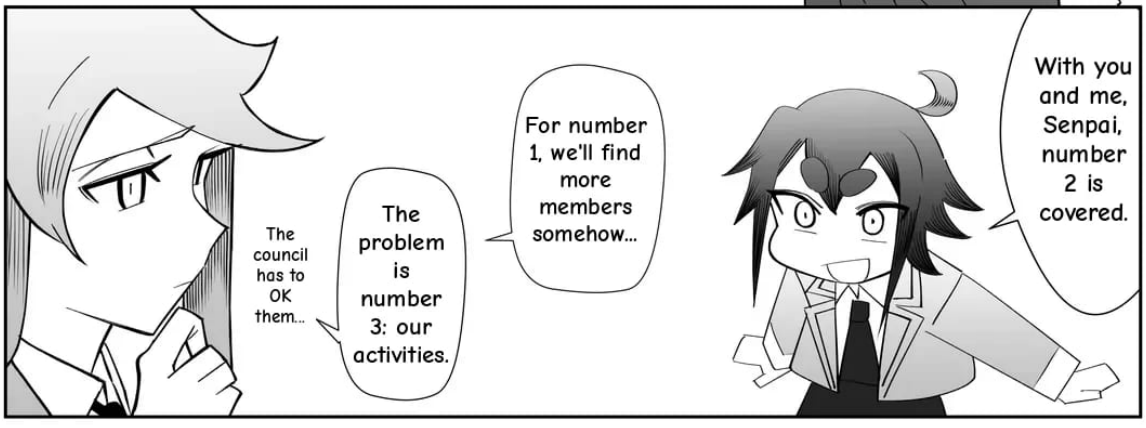

The Electronic Instrument Club was founded 40 years ago. Lose the club room, and all the instruments and gear here get thrown out.
To lose so much heritage and so many legends on my watch... It's a bitter thing.
ホロー…
SNIFF...
Well, then—!
Th—
Then!!
I—


The Electronic Instrument Society will be the Electronic Instrument Club again!!
BOOM
I'll make it a club!
Well, yes, but...
If we become a club, we get to keep the room, right!?
No, hold on a minute.
This is between this society and the student council, you know?
And who are you, anyway?


I-I'm a new member!
Um...
I see.
HMPH
Ehe...
Oh?
RUB RUB
Read it, and make it a club yourself.
It lists the rules for founding a club.
Here.
Huh?
Then I'll give this to you.
Thanks.
Here.
See you.
Huh?
If you don't want to make that princess sad, you'd better get moving.

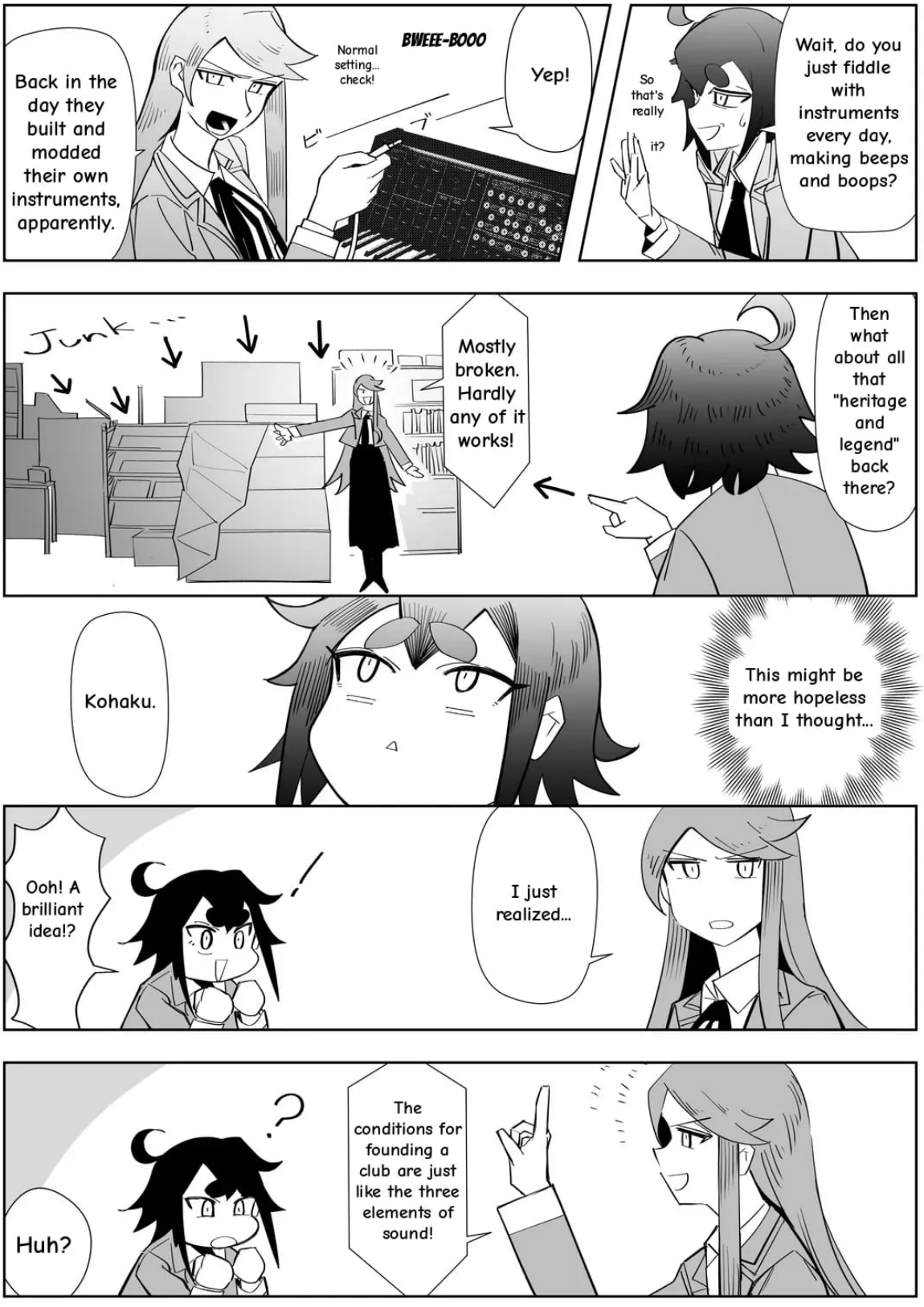

Besides...
This matter has been left entirely to me. As long as it's settled this term, there's no problem.
The president said the room should be handed back right away, though...
Okay...
Our job as the student council is to make sure no student ends up unhappy, isn't it?
Yes...
Calmed down?
Yes!
...our new member Kohaku?
Well then, shall we figure out how to make this a club...
Haha!
I got carried away and said whatever I wanted.
Um— I'm so sorry!

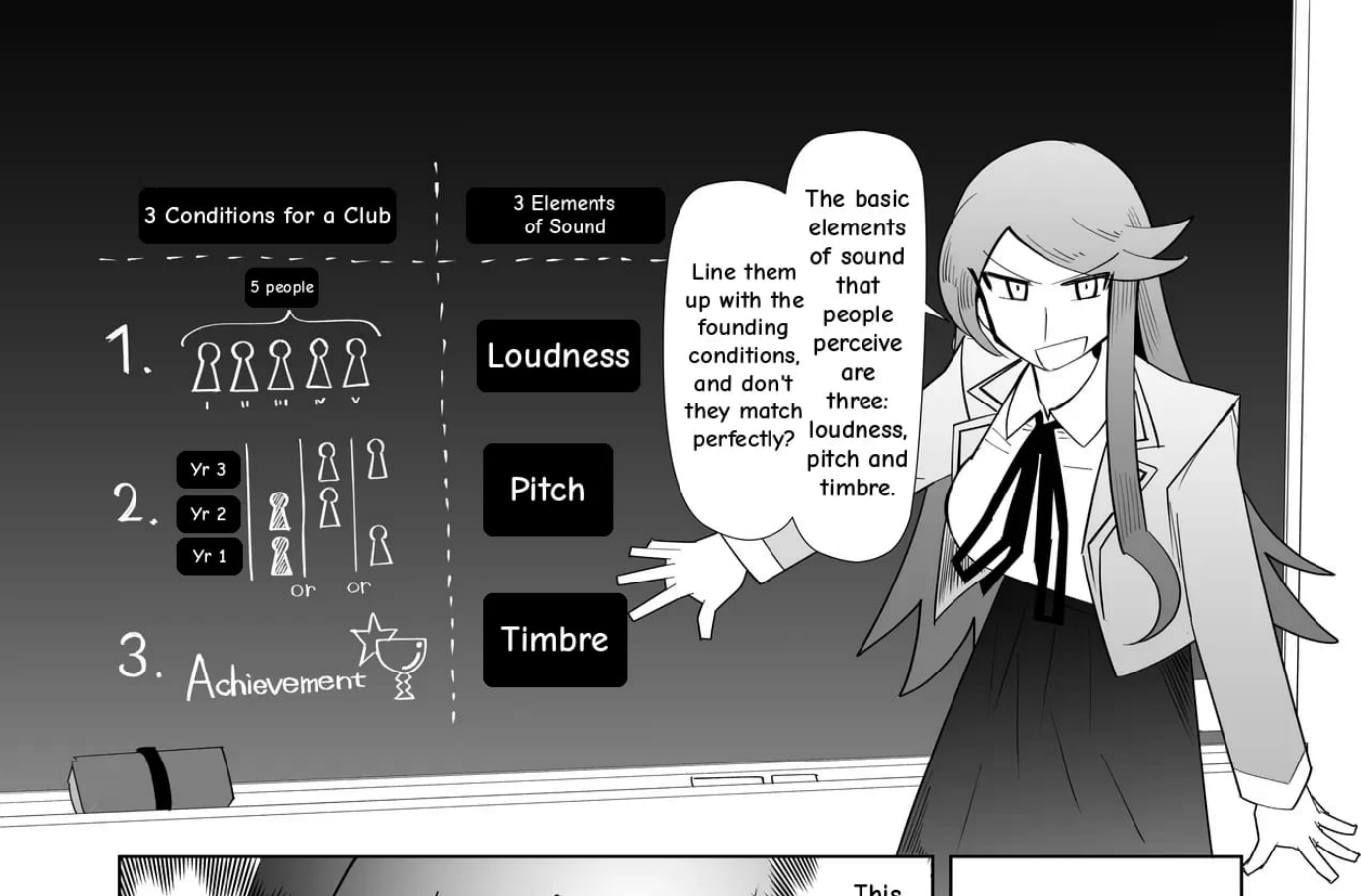

5 people
1.
I II III IV V
2.
Yr 3
Yr 2
Yr 1
or
or
3. Achievement
1. At least 5 members
2. Members from two or more school years
3. Activities that don't overlap with an existing club, plus a track record
To sum up the handout, there are three conditions for founding a club.

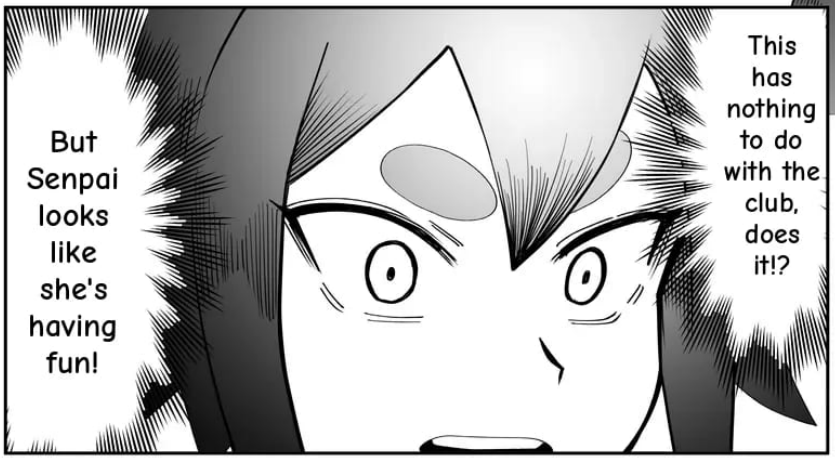

With you and me, Senpai, number 2 is covered.
For number 1, we'll find more members somehow...
The problem is number 3: our activities.
The council has to OK them...


We adore electronic instruments!
Uh... meaning what, exactly?


Our activities...
Um, I know it's really late to ask, but what does this society actually do?

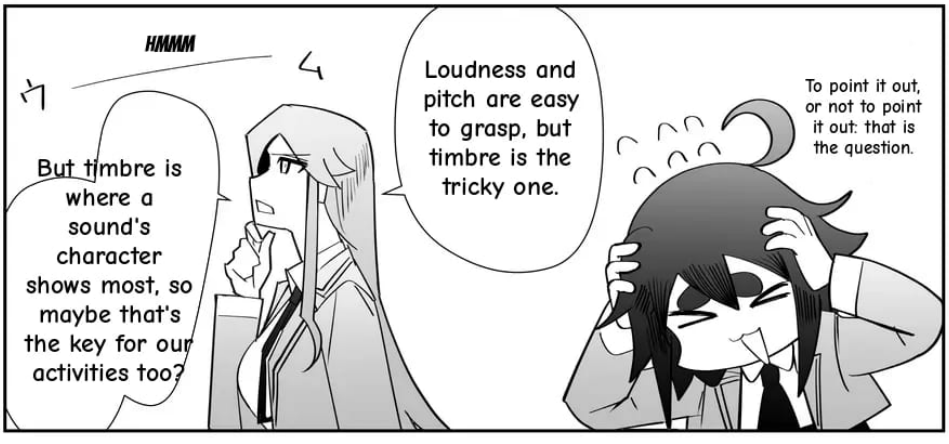

Back in the day they built and modded their own instruments, apparently.
Normal setting... check!
BWEEE-BOOO
Yep!
So that's really it?
Wait, do you just fiddle with instruments every day, making beeps and boops?
Junk
Mostly broken. Hardly any of it works!
Then what about all that "heritage and legend" back there?
Kohaku.
This might be more hopeless than I thought...
Ooh! A brilliant idea!?
I just realized...
Huh?
The conditions for founding a club are just like the three elements of sound!


3 Conditions for a Club
5 people
1.
2.
Yr 3
Yr 2
Yr 1
or
or
3. Achievement
3 Elements of Sound
Loudness
Pitch
Timbre
Line them up with the founding conditions, and don't they match perfectly?
The basic elements of sound that people perceive are three: loudness, pitch and timbre.

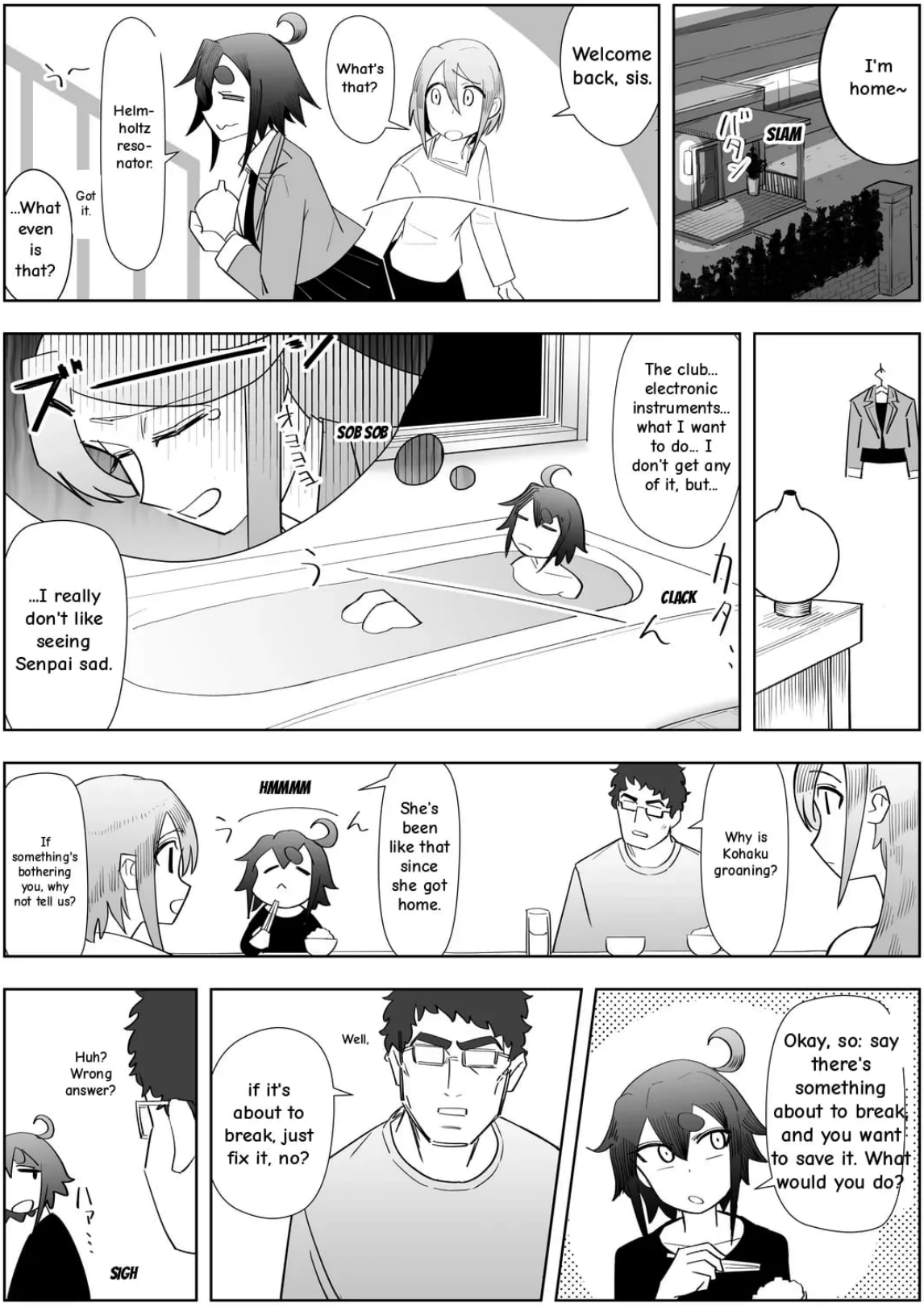

But Senpai looks like she's having fun!
This has nothing to do with the club, does it!?

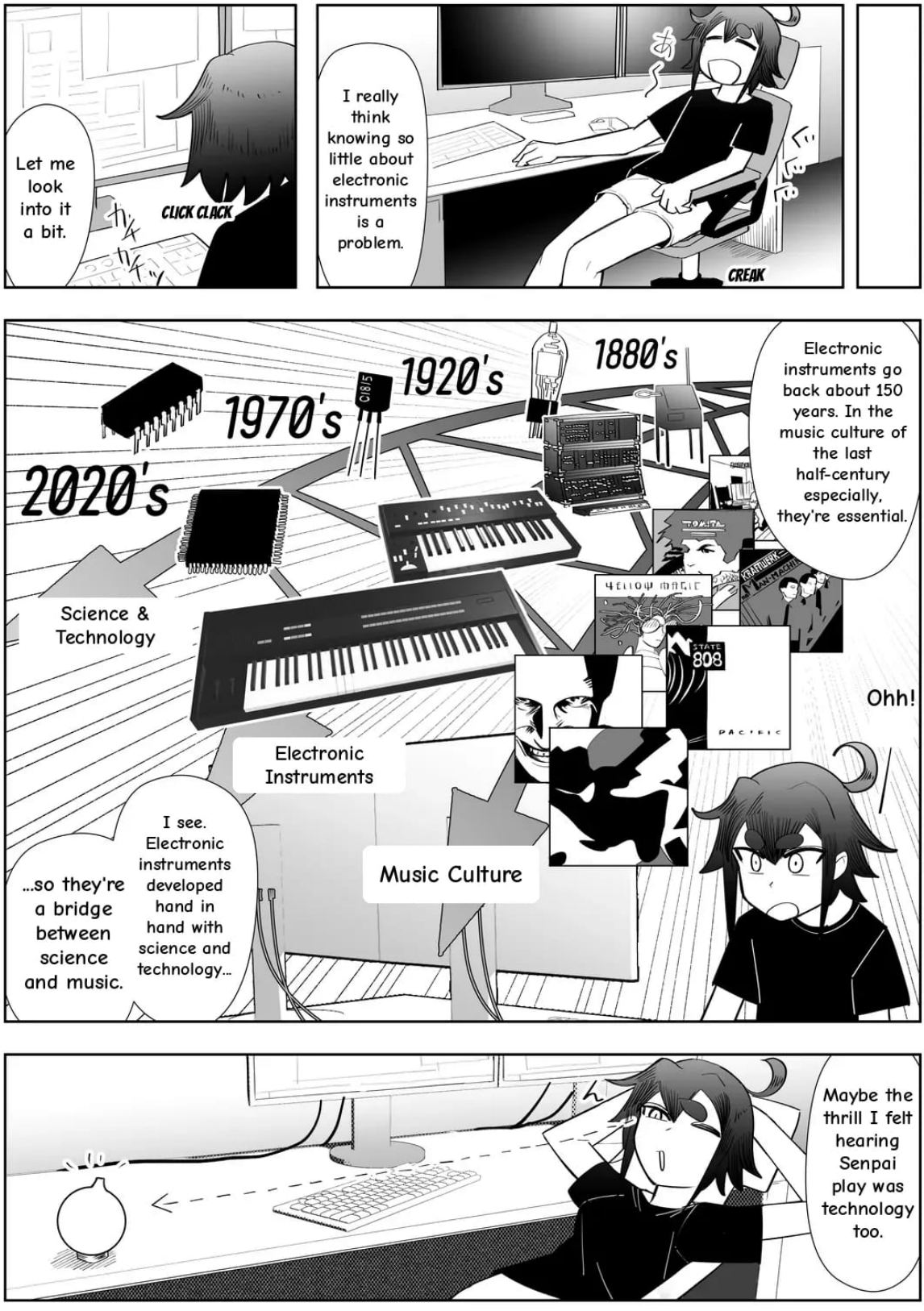

Uhh...


Hm?


HMMM
But timbre is where a sound's character shows most, so maybe that's the key for our activities too?
Loudness and pitch are easy to grasp, but timbre is the tricky one.
To point it out, or not to point it out: that is the question.


I'm pretty sure it was around here...
What are you looking for?
Huh?
RUSTLE
Here, this!
Found it!
When it comes to how we hear sound, it's all Helmholtz!
Look it up if you're curious.
All this unfamiliar stuff has worn us both out.
Let's each think about the club at home.
G-good work today!


Welcome back, sis.
What's that?
Helm-holtz reso-nator.
Got it.
...What even is that?
I'm home~
SLAM
The club... electronic instruments... what I want to do... I don't get any of it, but...
SOB SOB
CLACK
...I really don't like seeing Senpai sad.
Why is Kohaku groaning?
She's been like that since she got home.
HMMMM
If something's bothering you, why not tell us?
Okay, so: say there's something about to break, and you want to save it. What would you do?
Well,
if it's about to break, just fix it, no?
Huh? Wrong answer?
SIGH


Let me look into it a bit.
CLICK CLACK
I really think knowing so little about electronic instruments is a problem.
CREAK
1880's
1920's
1970's
2020's
C1815
Science & Technology
Electronic Instruments
Music Culture
Electronic instruments go back about 150 years. In the music culture of the last half-century especially, they're essential.
Ohh!
I see. Electronic instruments developed hand in hand with science and technology...
...so they're a bridge between science and music.
Maybe the thrill I felt hearing Senpai play was technology too.


..just like the three elements of sound.
STARE
じ～
3 Elements of Sound
· Loudness
· Pitch
· Timbre
got it
got it don't get it
The three elements of sound, huh. Loudness, pitch, timbre... It's just timbre I don't really get.
Senpai said timbre is what gives a sound its character... but what is timbre, anyway?
So this resonator resonates at one specific frequency?
Let me dig a little deeper.
Pure tone
Sine wave single frequency
Level
Time
Remove all overtones
Frequency spectrum of a sound
Level
Frequency
Fundamental
Overtones
A pure tone. That's the smallest unit of sound.
Sound is made of all kinds of waves. Break it down until it can't be split any further, and it's all combinations of one waveform: the sine wave.
Ah~
I think I get it!


Apparently Hermann von Helmholtz figured this out.
e.g. waveform of a piano note
Pure tones stacked
So "timbre" describes how pure tones are stacked up inside a single sound.
Combining pure tones changes how a sound comes across.
WAAAH
...Wait, I don't have time for this!!
So that's what Senpai meant when she said the Telharmonium built its tones by adding harmonics to the fundamental!
That's why she said it could sound like a piano or a flute.
TOTALLY GET IT NOW
完全に理解した
ビビ
ZZT
What's this!?
Could this work...?
Senpai is suffering even now!
RRRRGH
I've gotta come up with activities that'll get us approved as a club!!
オオオオオ


Senpai.
SLIDE
ガラッ
JOLT
Let's hear it.
I've figured out what we'll do.
You okay!?
That's some face you're making.
Your talk about the three elements of sound gave me a hint.
Hm?
That's why you gave me the resonator, right!?
Um, no?
For this club's activities to work, there are three conditions.
1
Senpai, you want to touch the gear.
2
You want to protect the club's history.
3
We want the council to see this club as special.
So...


We'll repair them!
Let's restore them!
BOOM
"Preserving technological heritage, focused on electronic instruments." Let's make that our club activity!
Some of these are even registered as Future Technology Heritage, right?
That's my conclusion, all three stacked together!
PRESERVE = RECOGNIZE + PROTECT + TOUCH
Touch them, protect them, get recognized.
Thank you, Kohaku.
That might even win over the student council.
Ooh~
Nice!













TO NEXT SIGNAL