*Quantum Equilibrium & **Unified Energy Signatures

Thermal equilibrium between Numbers, Thermodynamics, Cryptography.

“The Twist”

Numbers

Thermodynamics

Cryptography

*This is a scrapbook explanation ELI5. Not because I’m trying to dumb it down, but simply because I’m not educated or well written and don’t know how to convey my thoughts in any other way than some kindergarten style finger painting blob of colors. I am aware that there is a specific language amongst these communities, and not speaking to it is out of lack of personal education.

**If you do read through this end to end, and enjoyed reading it or would like to talk more about it feel free to reach out! I like talking about this stuff, and usually get laughed at when I try to explain myself, so I’m keen for a convo! If not, hope you have a great day!

Energy Signatures - What are they?

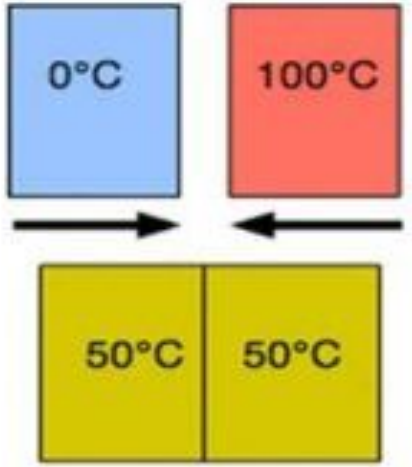
Just like a normal signature, it is a unique representation of both a present state of an entity, and the former state of that entity.

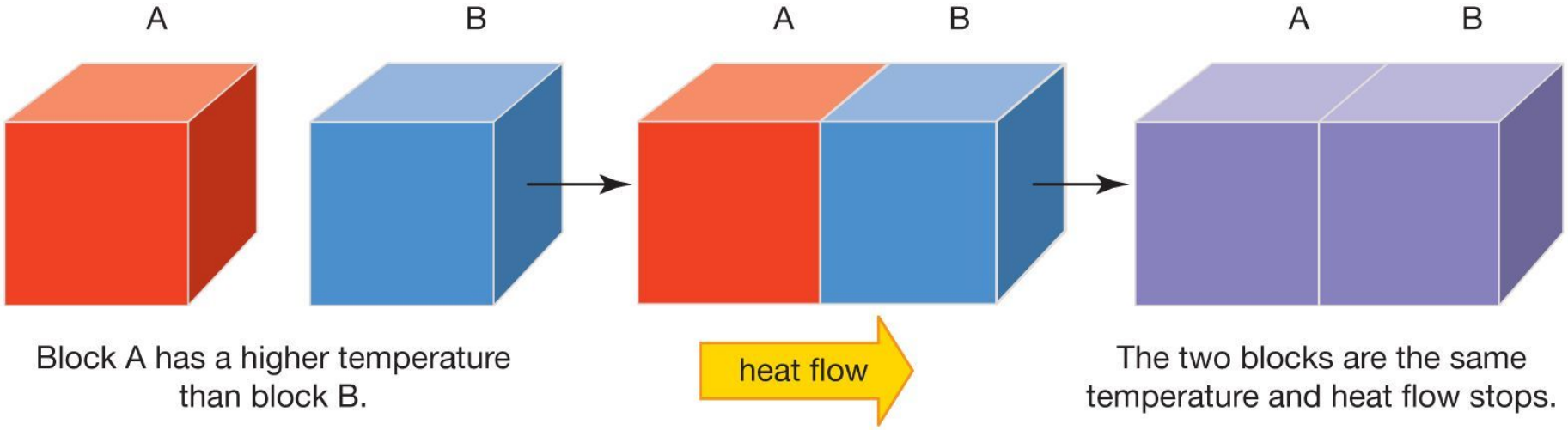
Visually, we calculate this automatically, with light.

Footprints in the sand are an energy signature.
Your shadow is an energy signature.
A puddle of water next to an empty ice-tray would be an energy signature.

Thermal Equilibrium

- Is obtained when touching objects within a system reach the same temperature.





Block A has a higher temperature than block B.

Heat is transferred from the warmer block to the cooler block.

The two blocks are the same temperature and heat flow stops.

Energy Signatures - What are they in the following contexts?

Numbers

Thermodynamics

Cryptography

Number of divisors *d(n)*
Sum of all divisors σ(*n*)
Sum of proper divisors (its aliquot sum) s(*n*)
Complete list of divisors

Energy Signatures - What are they?

Thermodynamics

In the context of energy signatures, I'll refer to physical representations of energy expenditure and the energy signature equivalent.

The goal is to help conceptualize the premise of an Energy Signature.

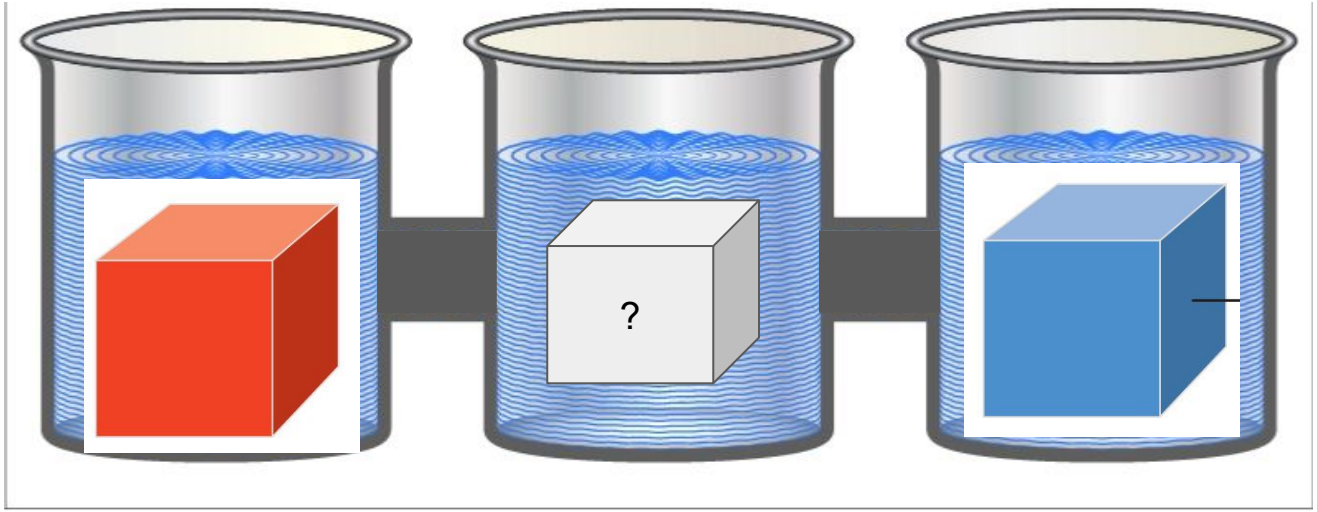
Energy Signatures - What are they?

Stealth boat from bond (tomorrow never dies). Detected by its wake and Bond took the villain down.

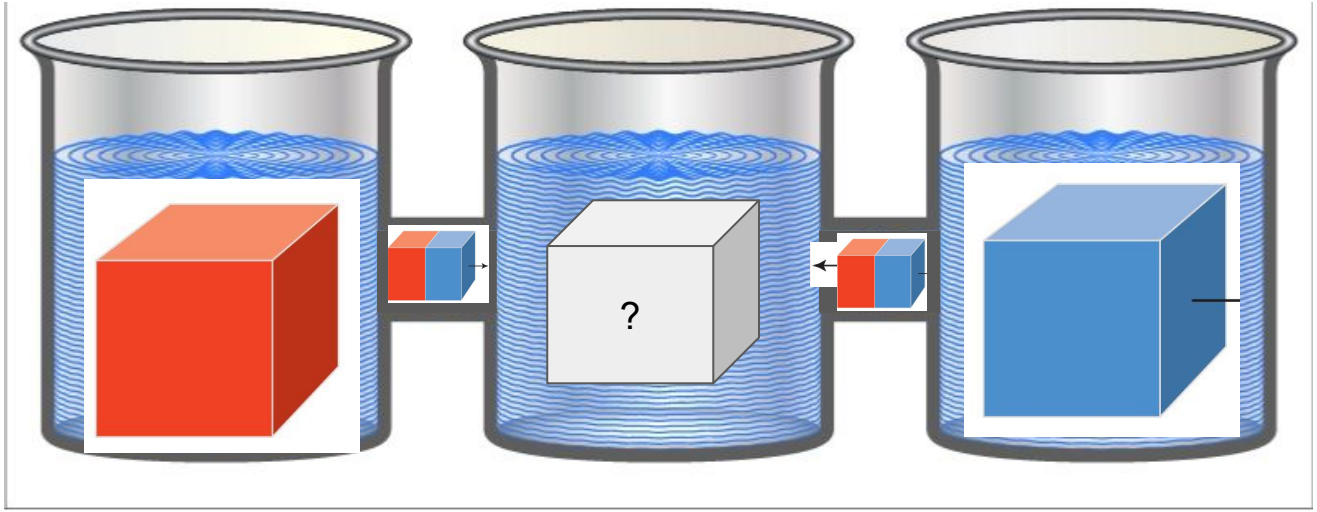
Energy signature from a house.

We know this signature, it is from fire. So we can assume it burned down.

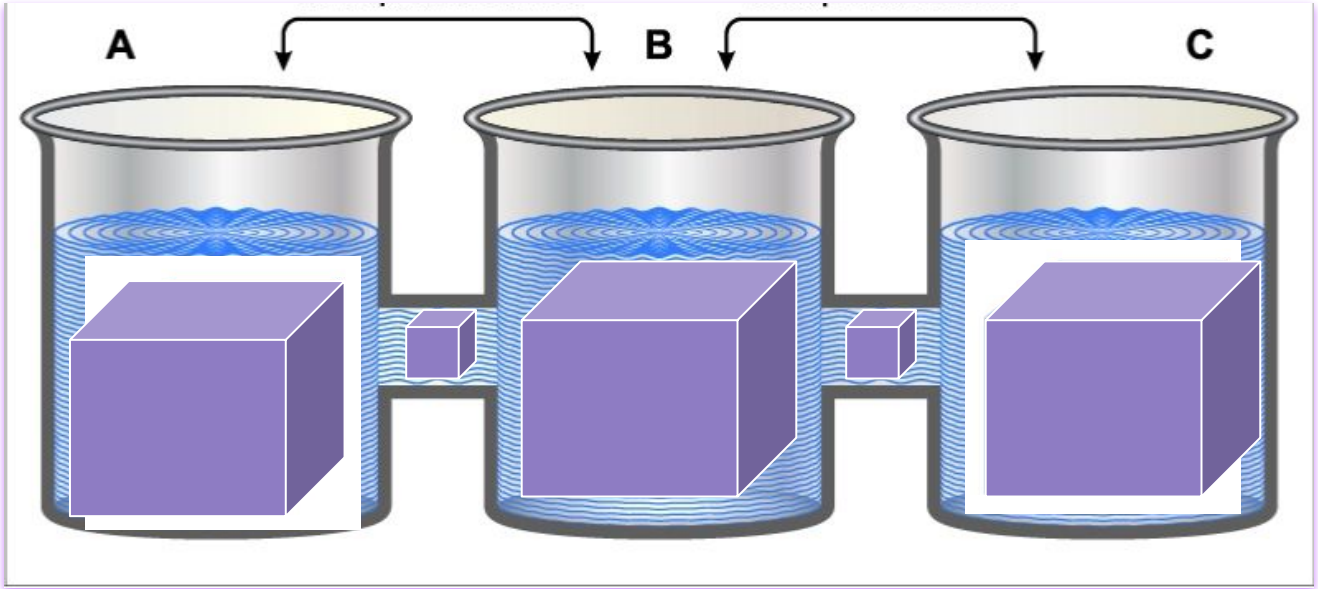
State 1 - Three cups, two temperatures. Separated.



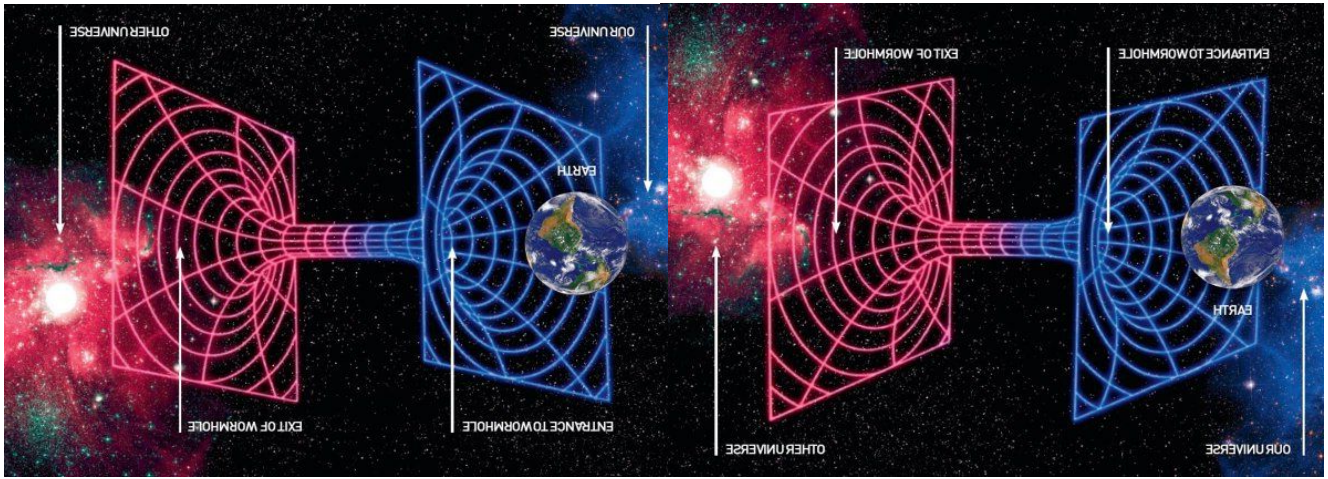
State 2 - Applying energy, we connect the three cups such that no energy is lost

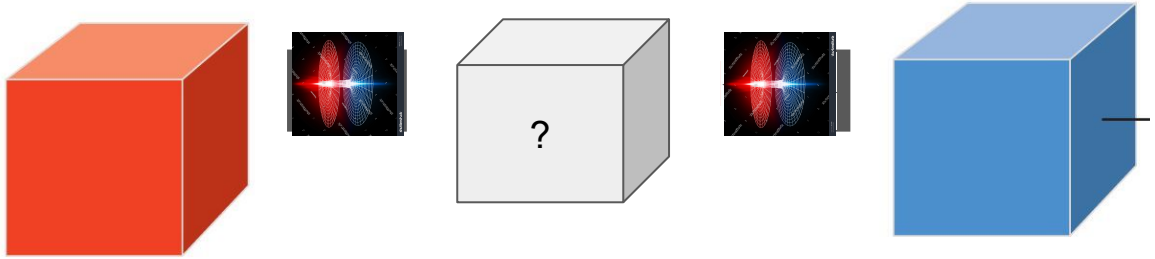


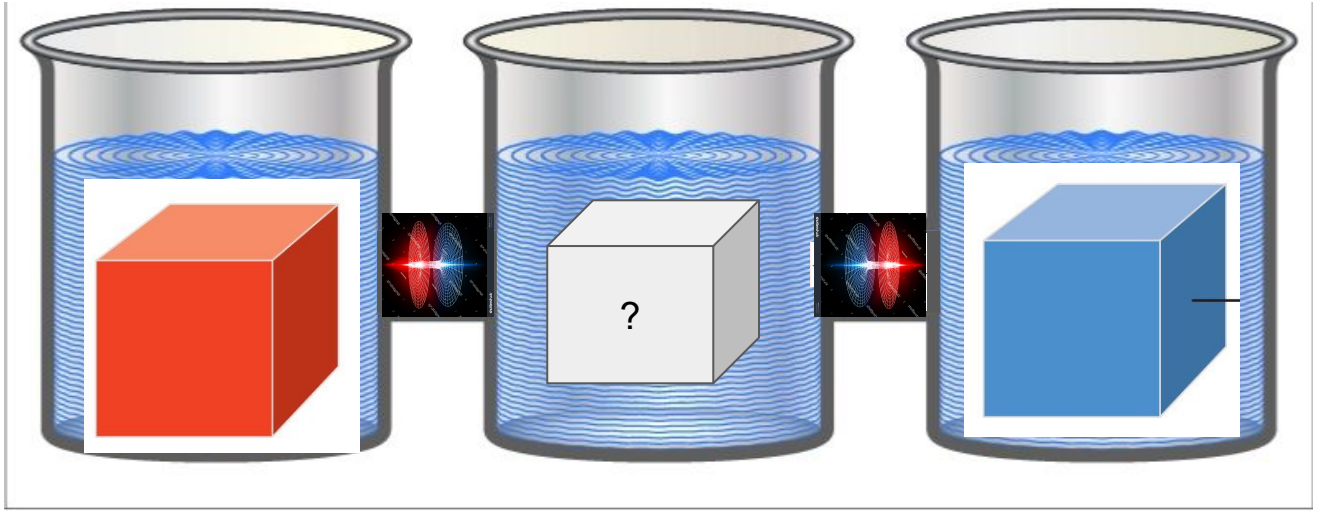
State 3 - Equilibrium. A final energy state (energy “signature”) encoding both previous states, and a final state.



Physics application - Folding spacetime







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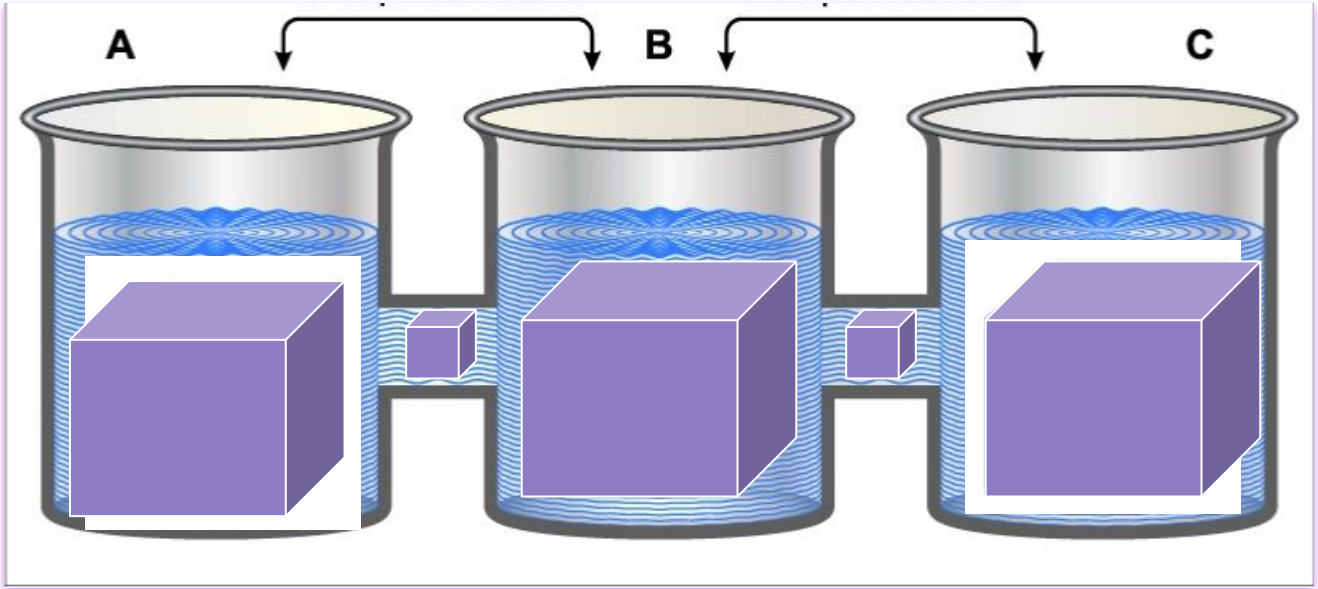


Energy Signatures - What are they for numbers?

Numbers

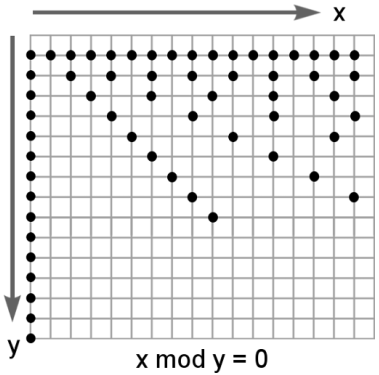
In the context of energy signatures, I'll refer to the inputs of a number aka energy expenditure and the energy signature equivalent.

The goal is to help conceptualize the premise of an Energy Signature, in the context of numbers.

Energy Signatures - What are they for numbers?

The "wake" (like a boat creating a wake) of a number is made up of things such as:

Number of divisors *d(n)*
Sum of all divisors σ(*n*)
Sum of proper divisors (its aliquot sum) s(*n*)
Complete list of divisors
Etc...



Prime Numbers - What are their Energy Signatures?

Much like the wake of a boat, or a public key, prime numbers leave a similar trail. We analyse the wake of an entity (boat/prime number/footprint/anything).

Purple highlights a prime, this is for twin primes explicitly. Hence the consistency. This is explained further in the coming slides FYI.

Prime Numbers - What are their Energy Signatures?

The following pattern is the minimum set of conditions to be met, in order to have two primes +/- 2 of each other.

				Prime		Prime			
Sequence Number	1	2	3	4	5	6	7	8	9
Smallest Divisor	1	1	1	1	1	1	1	1	1
Number	8	9	10	11	12	13	14	15	16
Minimum Divisors	2		2		2		2		2
		3			3			3	
					6				

- N-4: Divisible by 1,2. Never 3.
- N-3: Divisible by 1,3. Never 2.
- N-2: Divisible by 1,2. Never 3.
- *N-1: Divisible by 1.* **PRIME**
- N: Divisible by 1,2,3,6.
- *N+1: Divisible by 1.* **PRIME**
- N+2: Divisible by 1,2. Never 3.
- N+3: Divisible by 1,3. Never 2.
- N+4: Divisible by 1,2. Never 3.

This is represented visually to the left (haha, if that were not obvious).

It is a sequence of 9 conditions, that will contain 9 numbers, 2 of which are prime. A time chain sequence at the smallest possible scale afaik.

Prime Numbers - What are their Energy Signatures?

Lets visually organize this energy signature in a similar manner to our earlier thermodynamic example with the three cups of water, different temperatures.

Sequence Number	1	2	3	4	5	6	7	8	9
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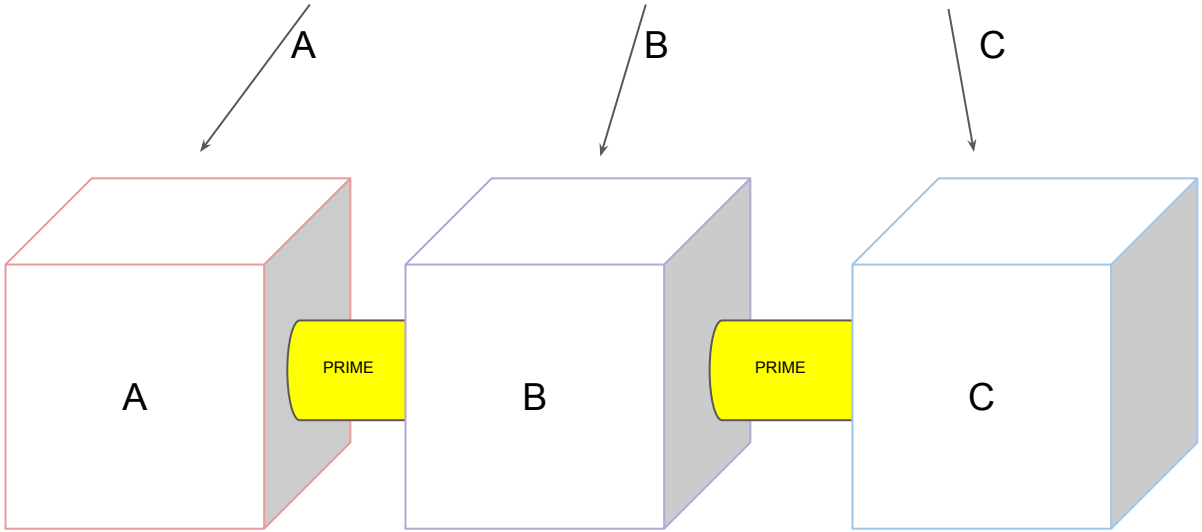
		3			3			3	
					6				



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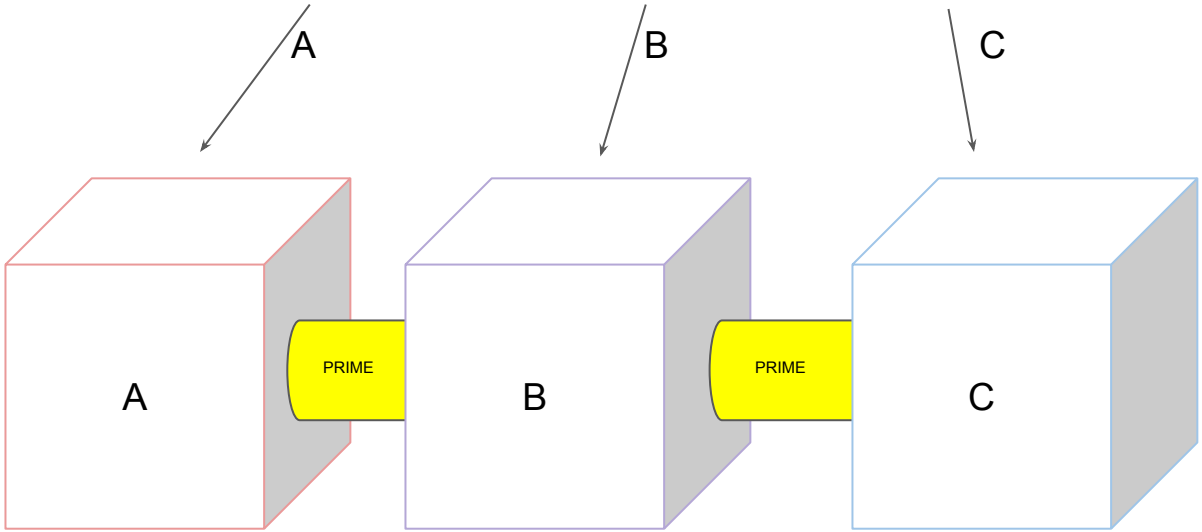
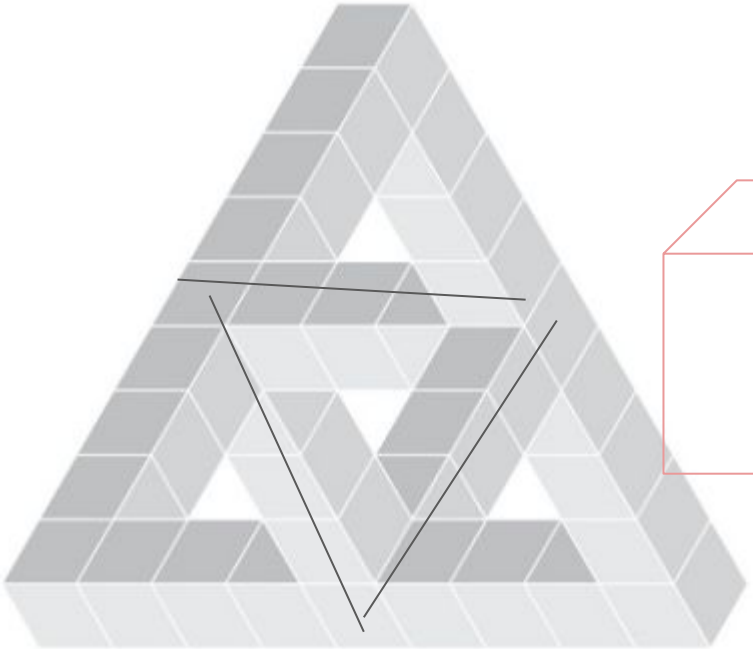
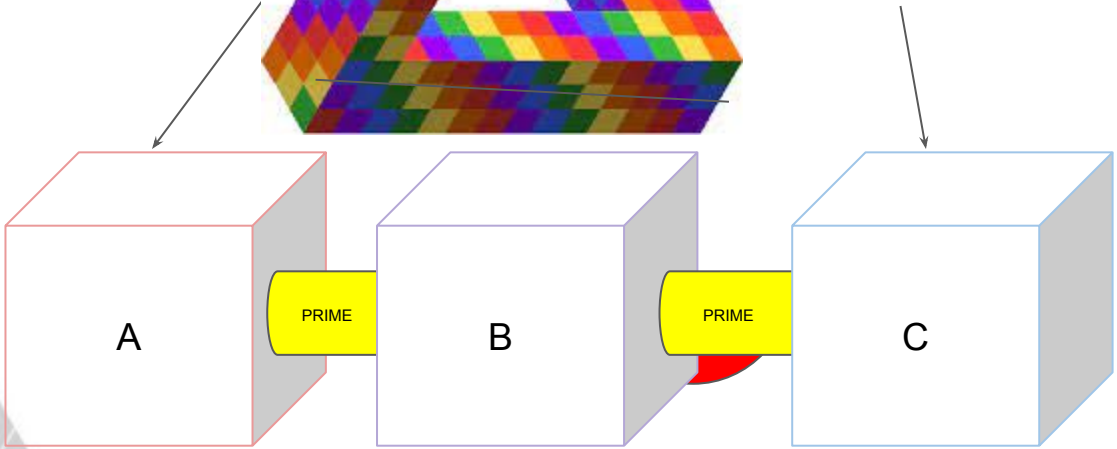


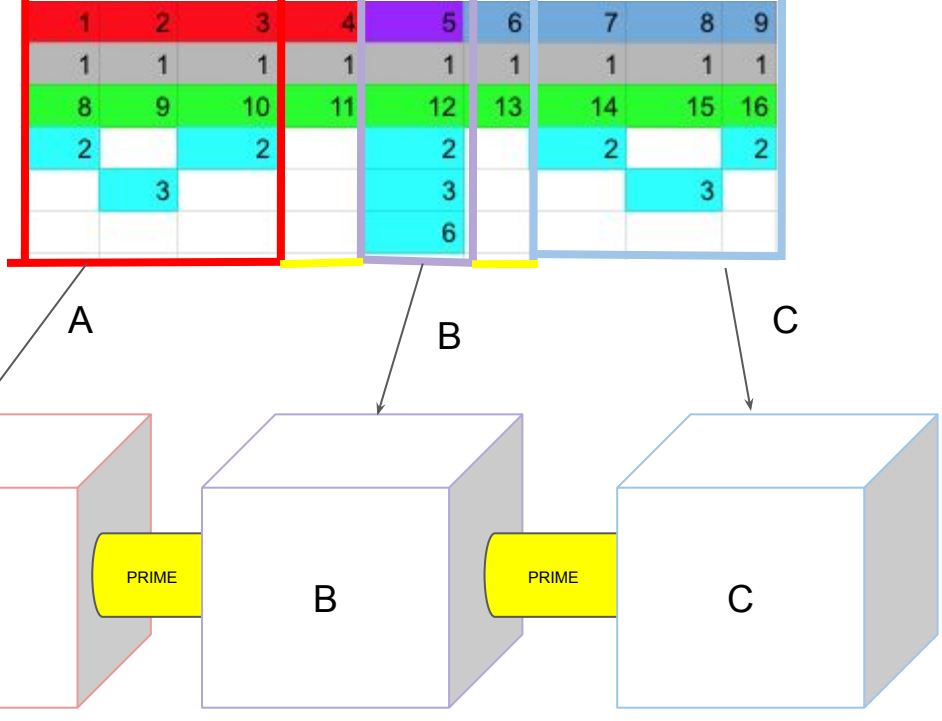


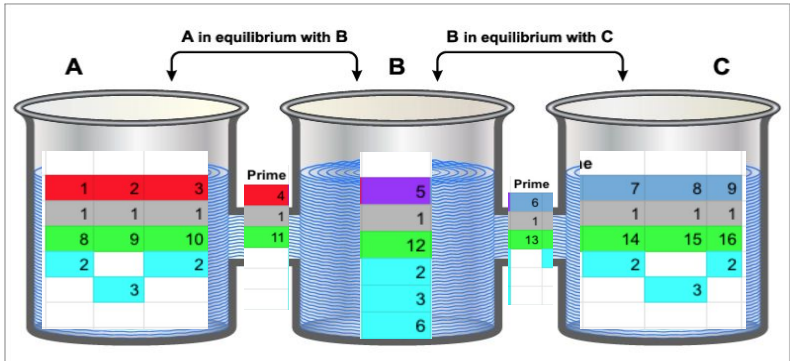

A
PRIME
B
PRIME
C

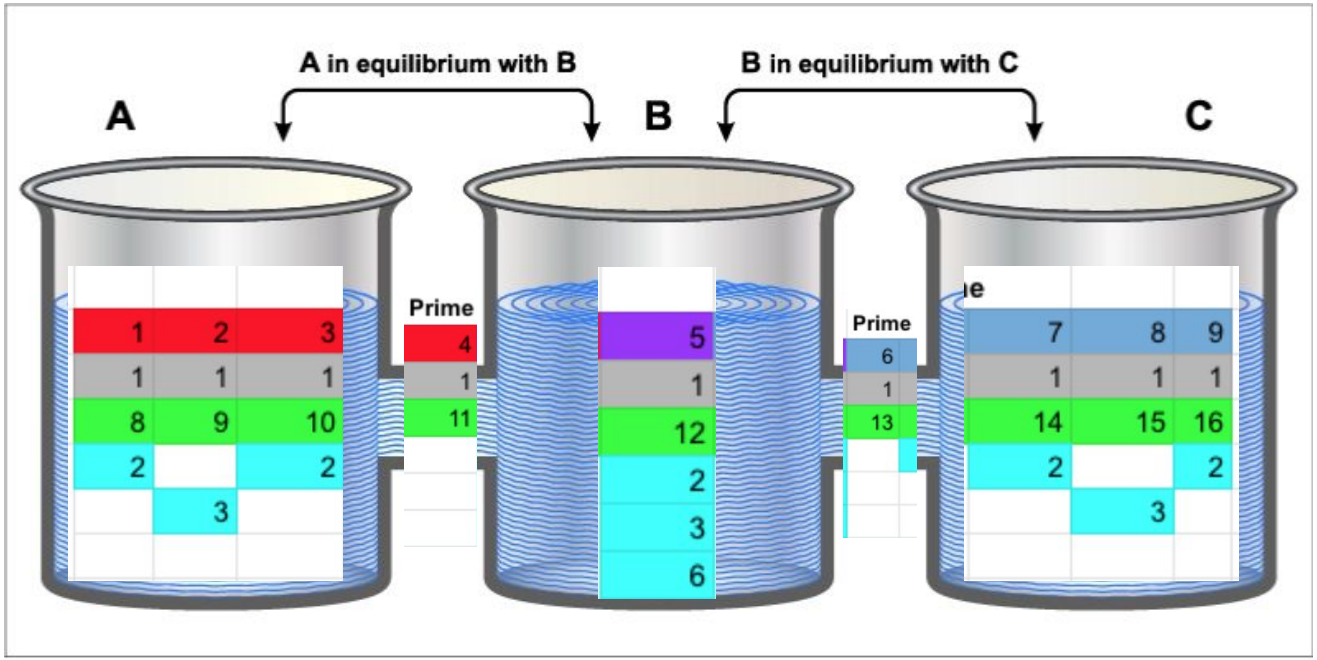
Numbers →

Cryptography →

Thermodynamics →






A in equilibrium with B
B in equilibrium with C
A
B
C
Prime
Prime
1 2 3
1 1 1
8 9 10
2 2
3
4
1
11
5
1
12
2
3
6
6
1
13
7 8 9
1 1 1
14 15 16
2 2
3

Prime Numbers are the glue connecting two different systems, such that their inclusion in the system would result in an entirely new state of the system that was not possible before it was introduced.

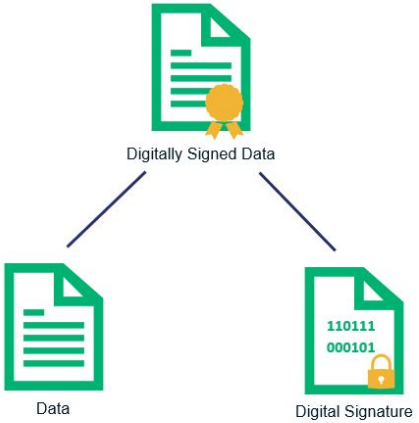
They represent “checkpoints” for lack of a better term, in entropy.

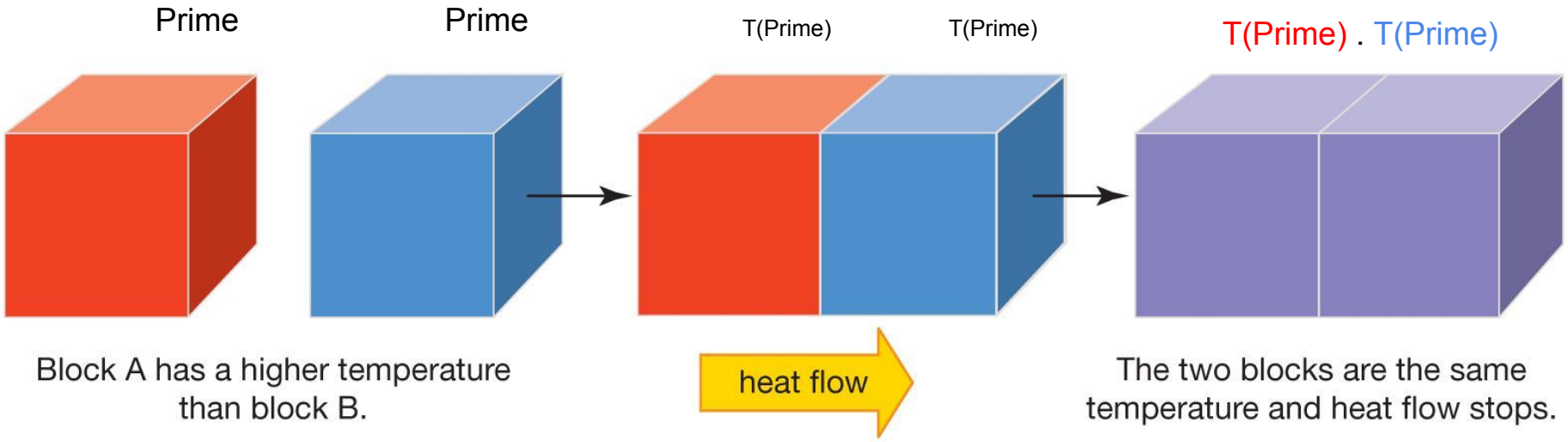
Think of an alien civilization coming to earth and to determine our technological advancements they could ask us what the largest known prime number is.

This would help them understand where we are in our ability to compute information. A prime number would be the most telling and universal measurement of technological capabilities on that planet.

Energy Signatures - What are they?

Cryptography

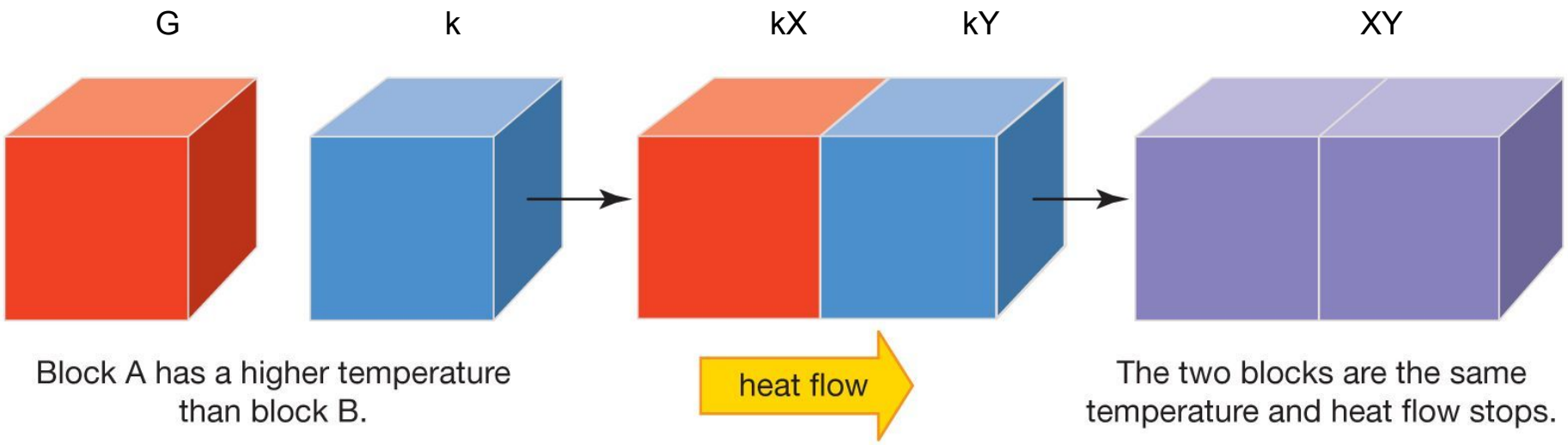




Block A has a higher temperature than block B.

Heat is transferred from the warmer block to the cooler block.

The two blocks are the same temperature and heat flow stops.



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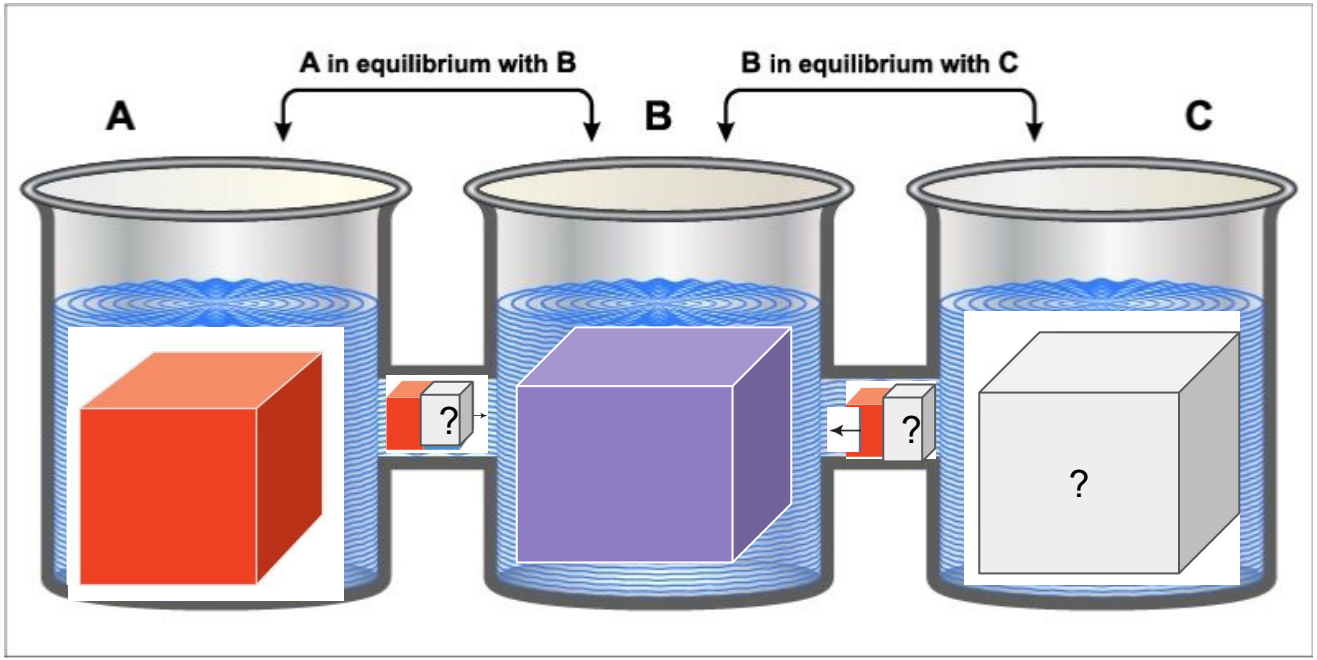
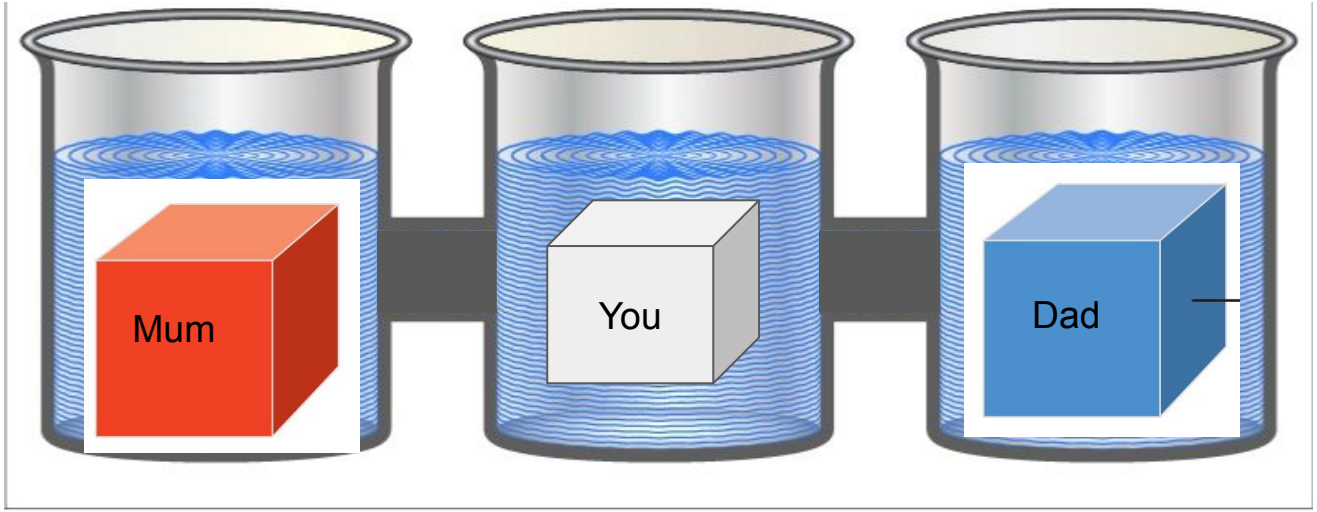
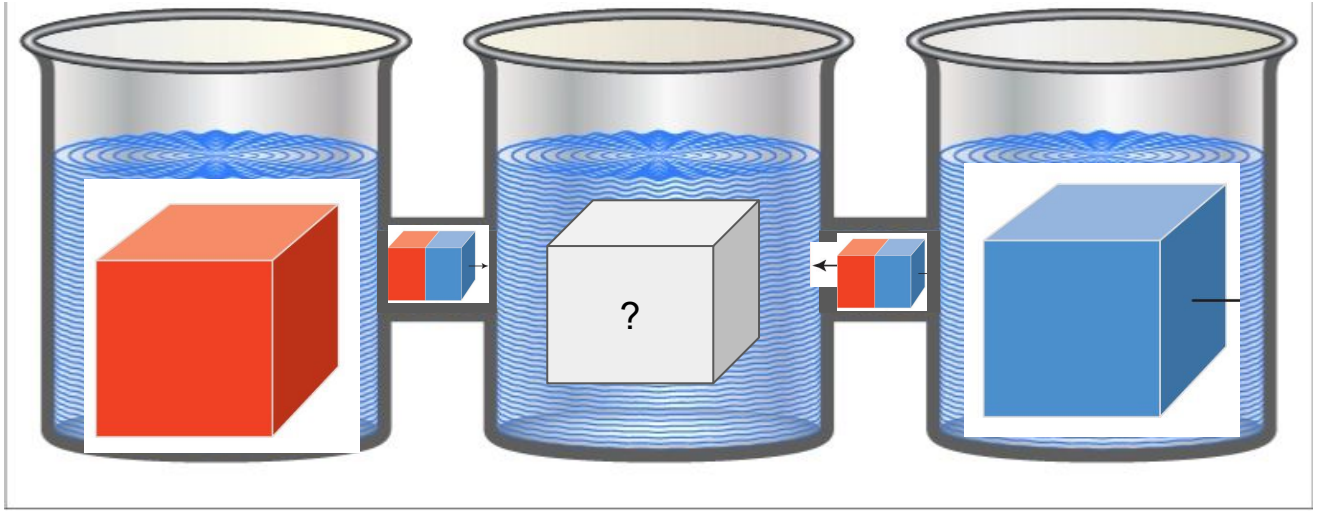

A in equilibrium with B
B in equilibrium with C
A
B
C
?
?
?

State 1 - Three People, two Parents.



State 2 - Applying energy (sex) we connect two entities such that no energy is lost. Producing our 3rd entity.



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