



Joyfulmathswithruth

Maths In ~~Motion~~

The ocean

The sunlight zone

To join in please bring:



A deepish baking tray

Some water

A straw

Sunlight zone



Sunlight zone (0 - 200m)

Twilight zone (200 - 1000m)

Midnight zone (1000 - 3000m)

The Abyss (3000 - 6000m)

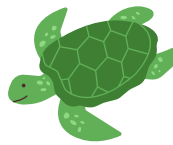
The Trenches (6000 - 11000m)



Sunlight zone (0 - 200m)

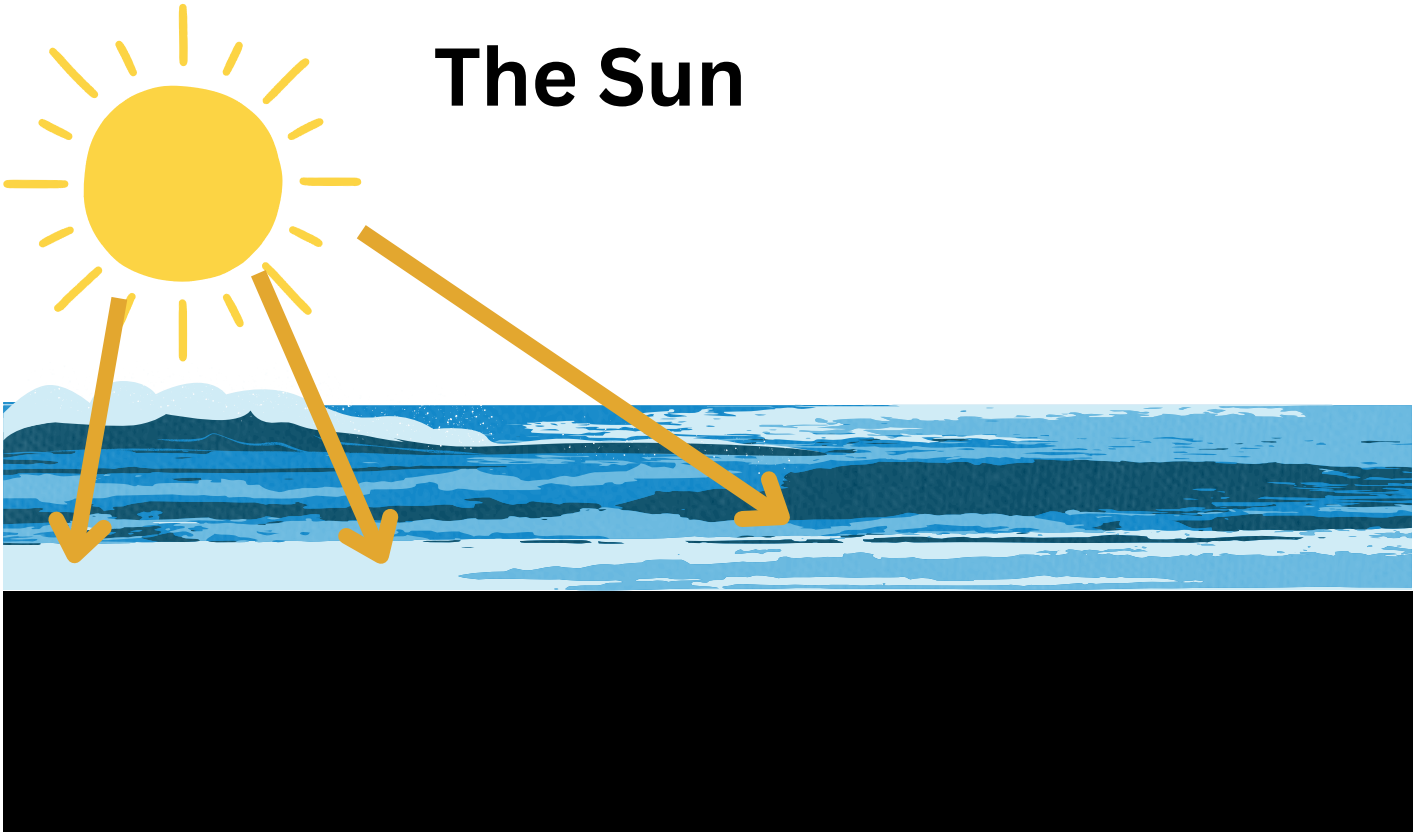


**90 % of all ocean
life lives here**

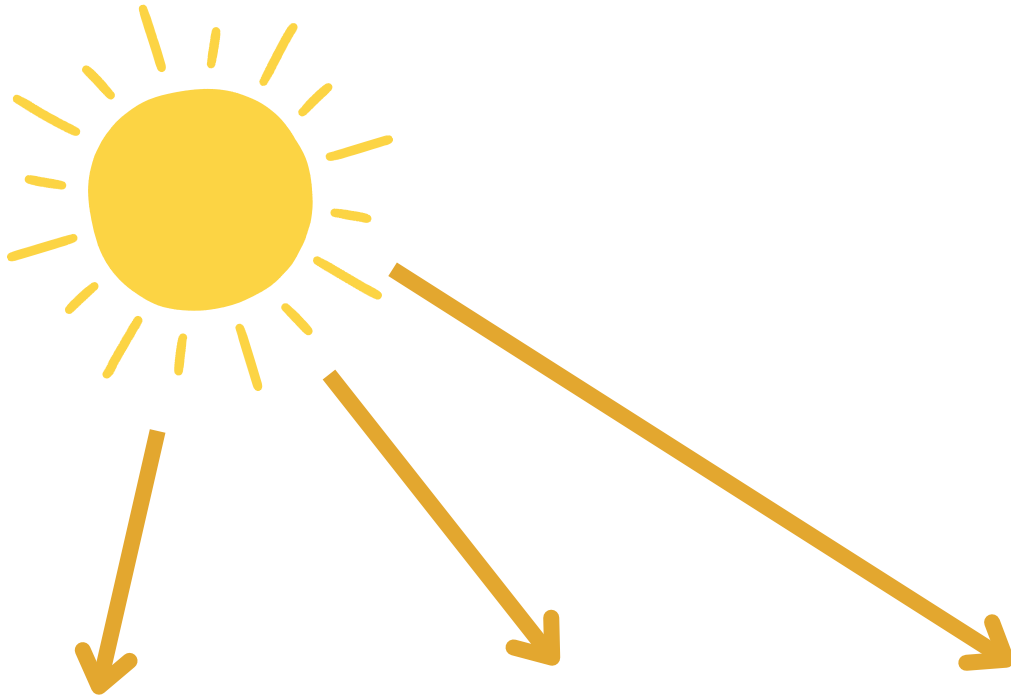


1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

The Sun



The Sun



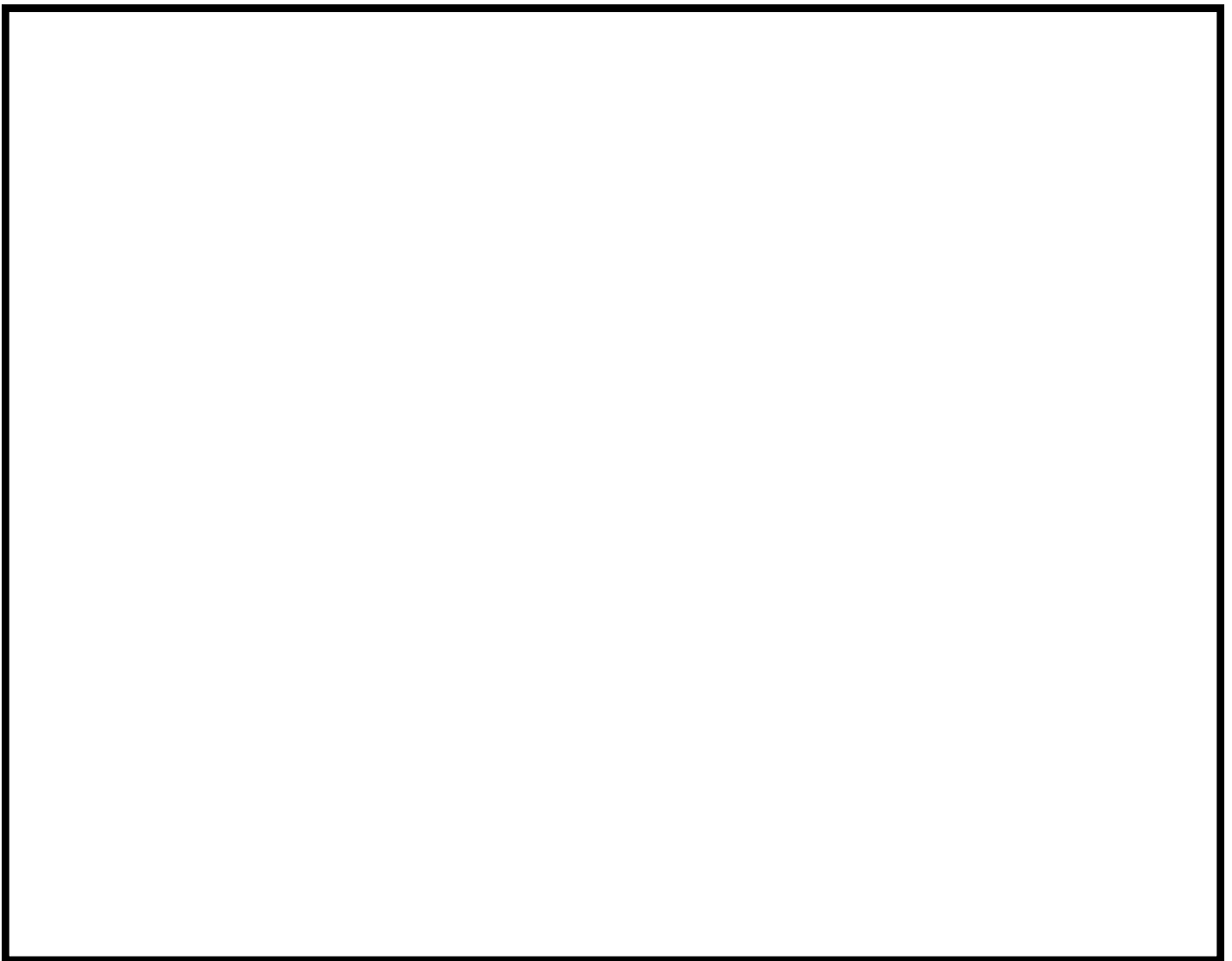
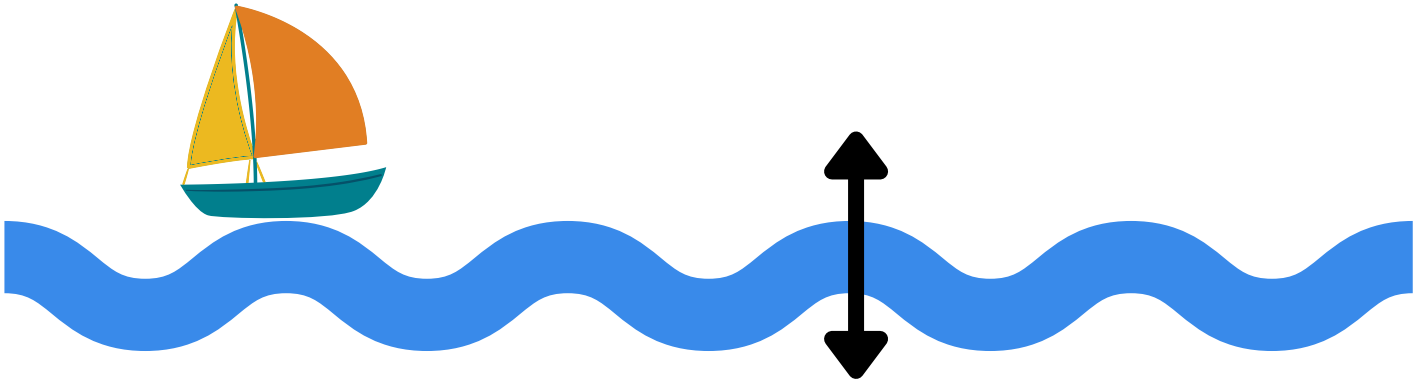


**What about
waves?**



**Tap your tray
What do you notice?**

Transverse waves



Experiment

Blow gently - what happens?

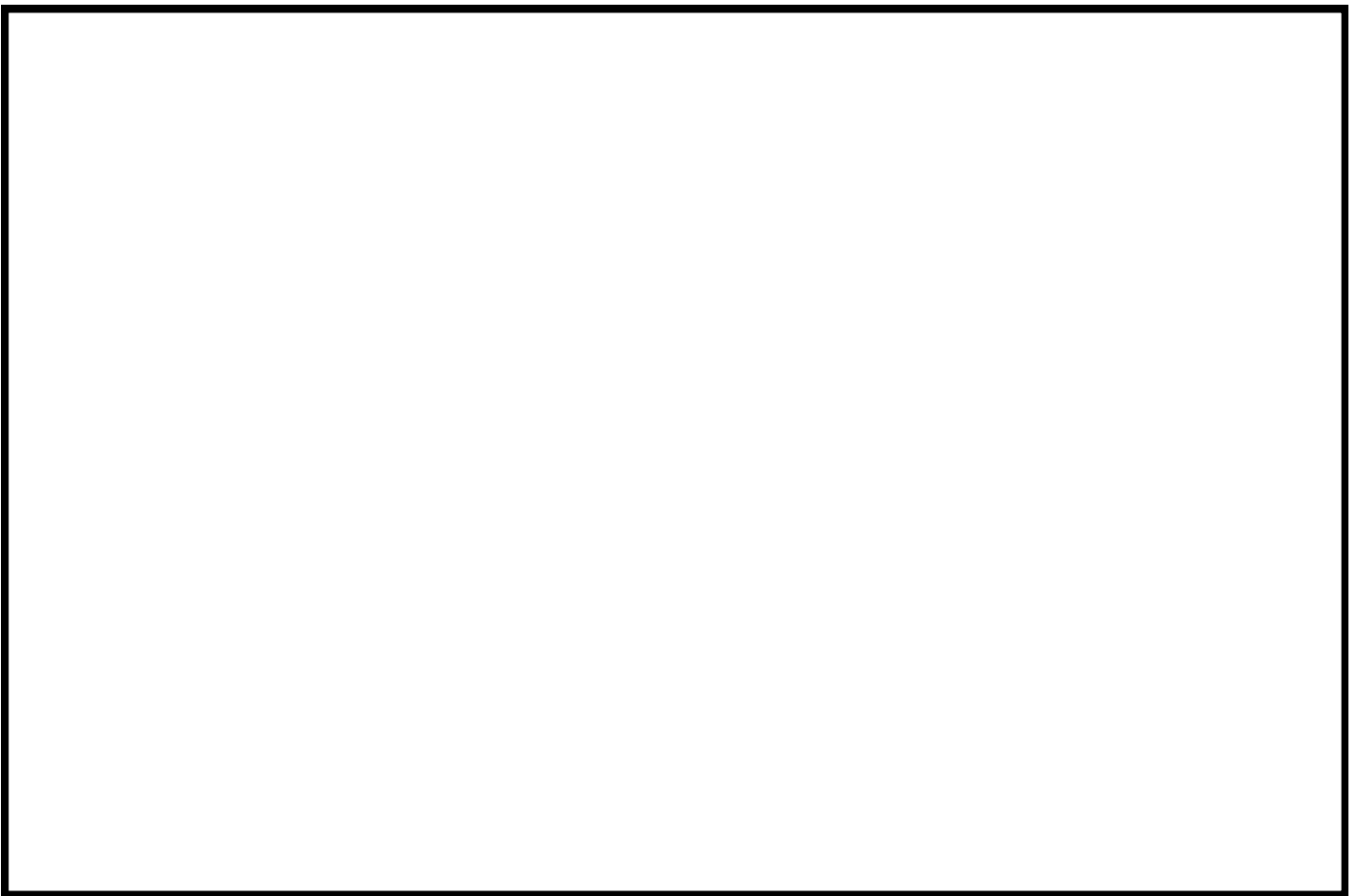


Blow harder - what happens?





The surface of
the water
being effected
by the friction
of the air



**What else causes
waves?**



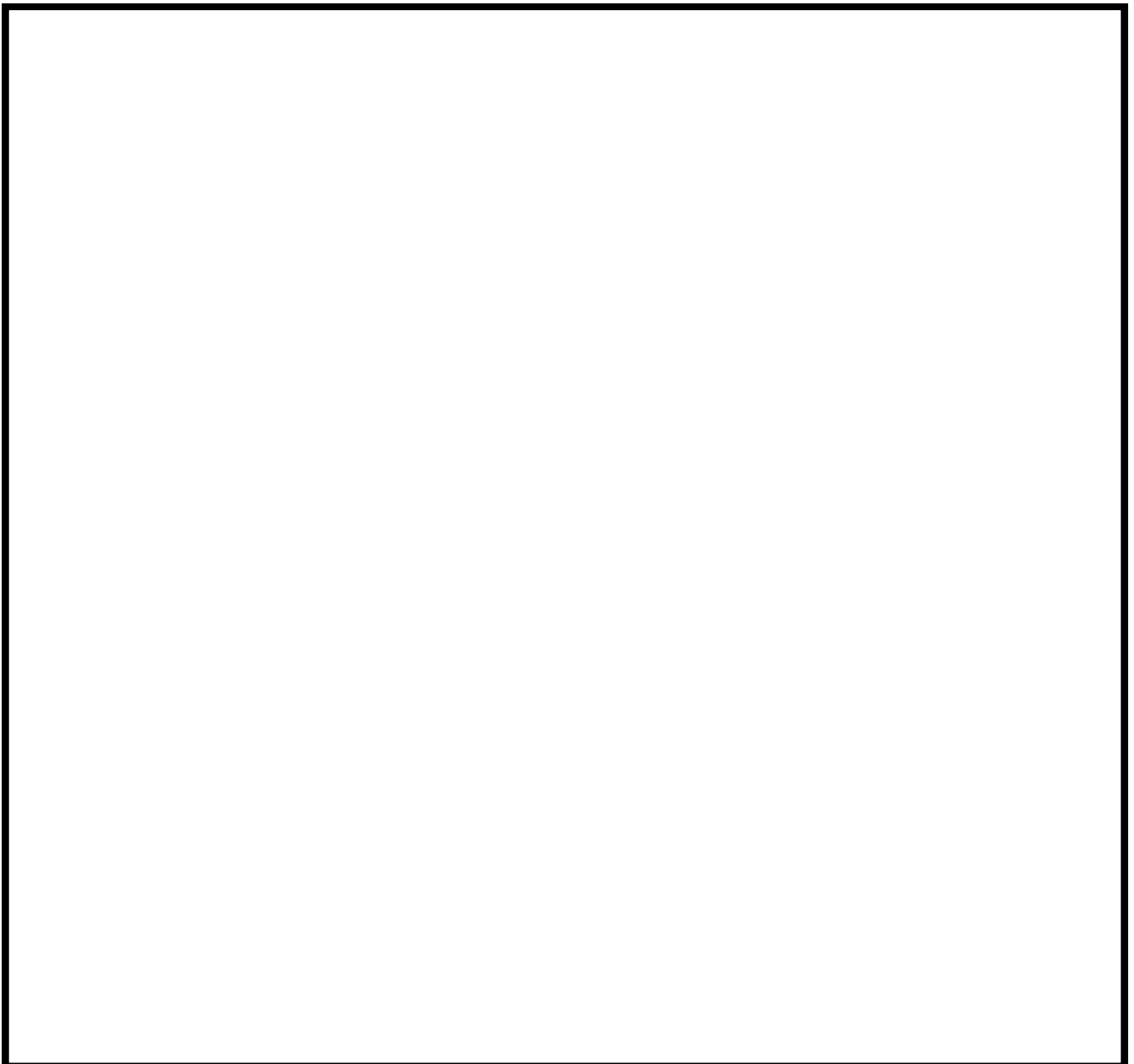
A large, empty rectangular box with a black border, intended for a student to write their answer to the question.

1

25%

**9 out
of 10**

90%



2

Sine

Tranverse

Hand

3

Wind

Vibration

Moon

Explore at home:

Where do you see percentages at home?

Have you looked at a food label?
What do the %'s tell you?

Can you pour water and oil into a glass so
that 10% is oil? How would you know?

Explore at home:

Questions to think about:

Can % ever be more than 100%



If you have 2 glasses of the same juice, but one is bigger than the other - what does that mean about the % of sugar in each glass?



Try this estimation % task
Percentage Estimation

