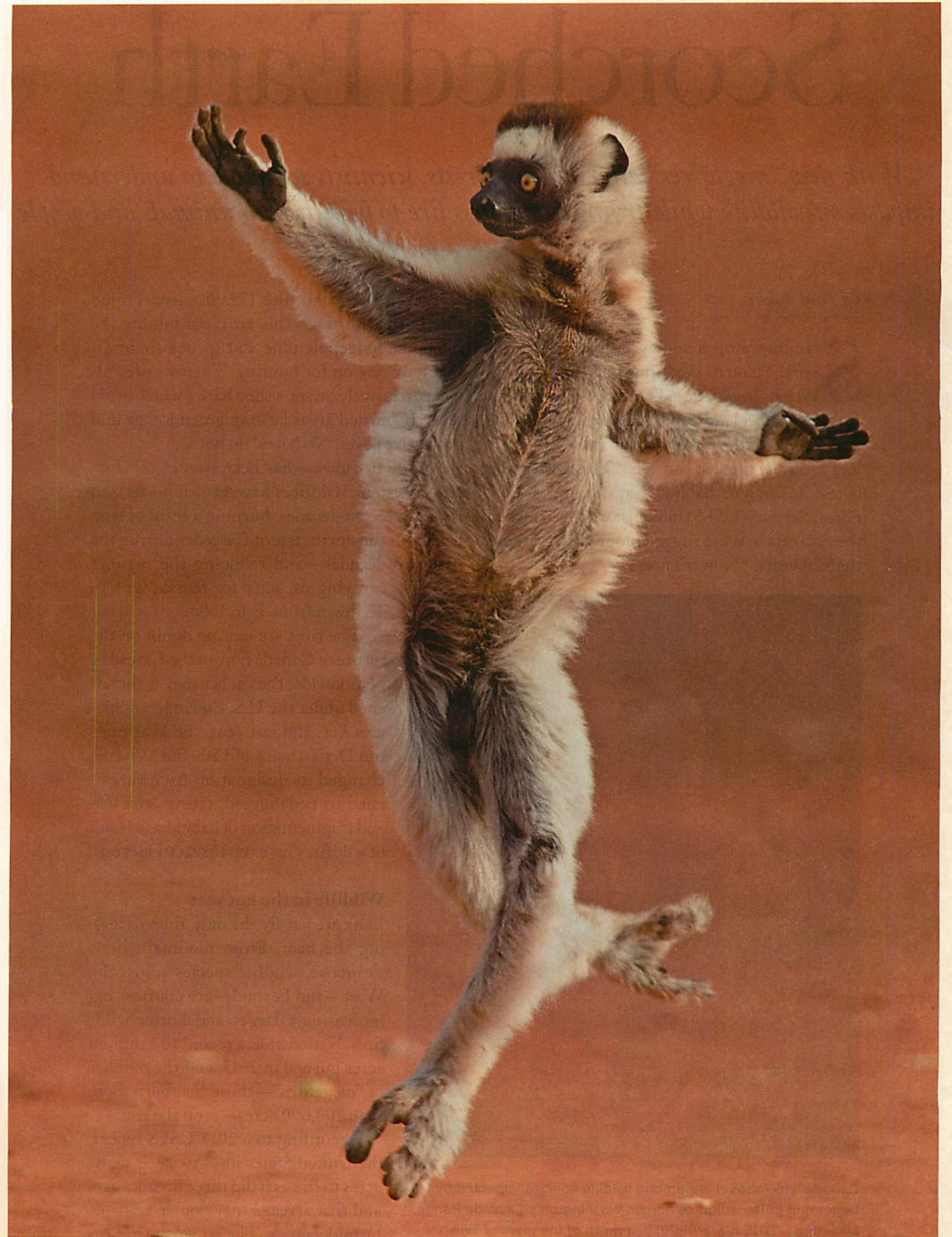


Put out Engineering pads

Welcome to Honors Physics

(we gonna dance tonight)



DIANA REBMAN

a cartoon a day...

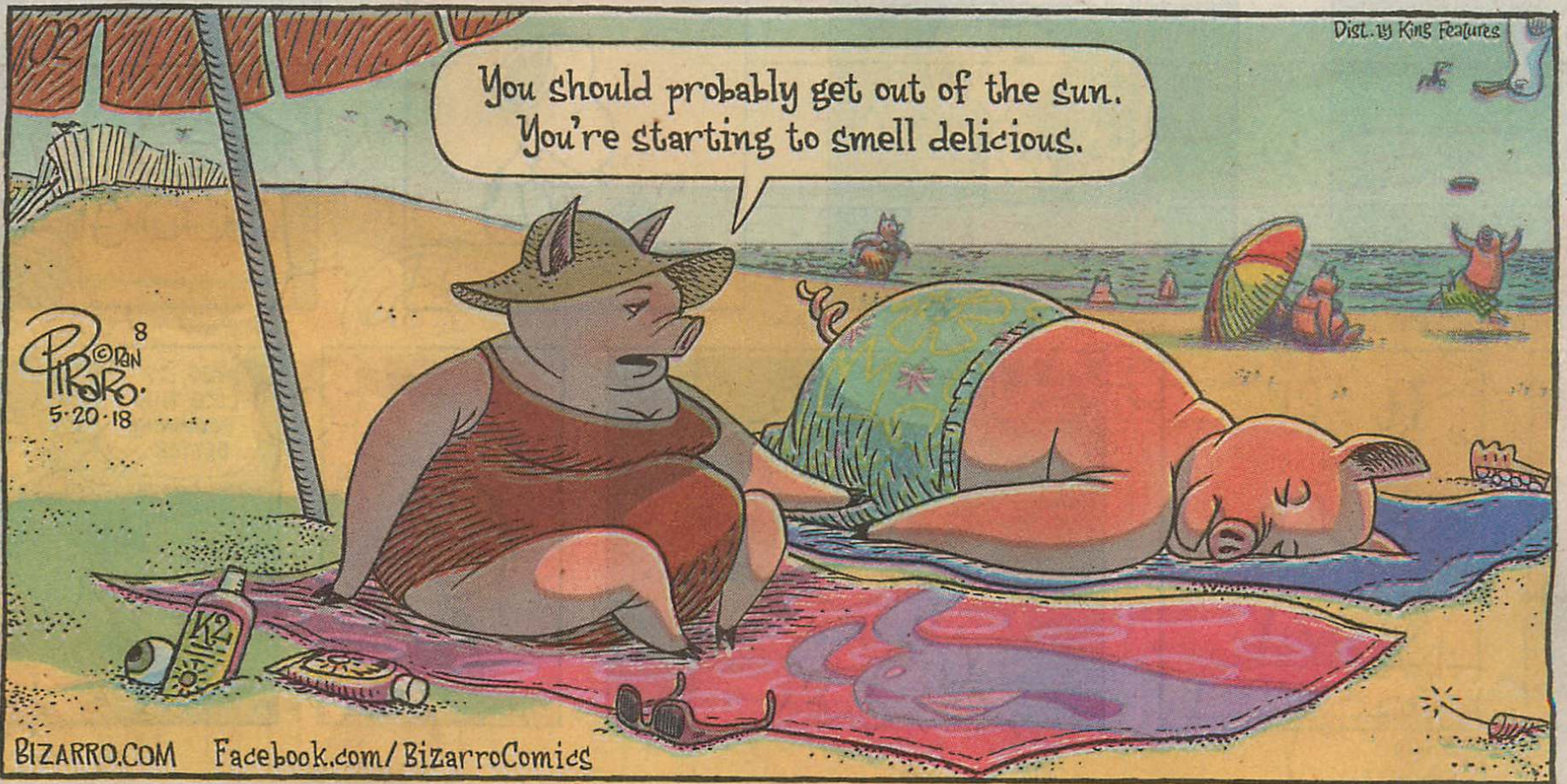
PEARLS BEFORE SWINE

BY STEPHAN PASTIS



a cartoon a day...

**B
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o**
By Dan Piraro



Honors Physics

Questions about Preamble

<http://faculty.polytechnic.org>

Get pdf of OpenStax text (problem-numbering problem)

First test will be on **Thursday, Sept 5**. It will cover **graphs** and **one-dimensional kinematics**. See calendar for further insight as to what you will be expected to do.

Shy to right

Nudged to right

Anxious to right

No, you can't really multi-task . . . (cell phones verboten)

College rep policy

Period A's L-day is Day 3; Period E's is Day 5

Time

Homework

Survey for 5 points . . .

How to succeed

ADVERSARIES?

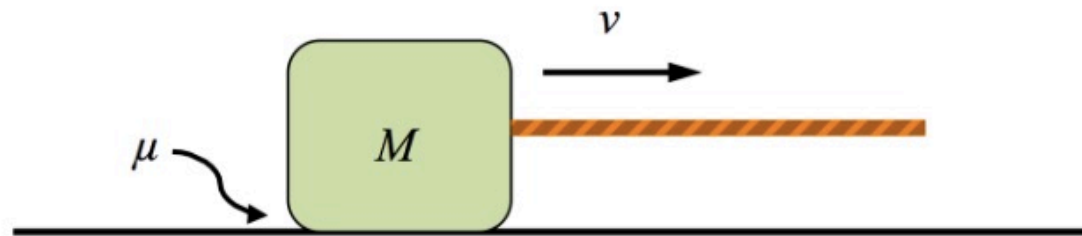


We are a family.

We are on the same team. If you don't succeed, I don't succeed. My JOB is to help you master the world of physics. If you need help, COME TALK TO ME . . .



Learn AP Physics

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Question:

A horizontally-oriented rope is used to pull a box (mass M) across the rough surface of a floor, at constant velocity v . If the coefficient of kinetic friction between the floor and the box is μ , the Power applied by the rope is

- Mv
- μMv
- μMgv
- slightly greater than μMv , to overcome friction
- Power can't be calculated without knowing how much time the box was pulled

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Answer:

The correct answer is c . The average Power applied by the rope over some period of time can be calculated as

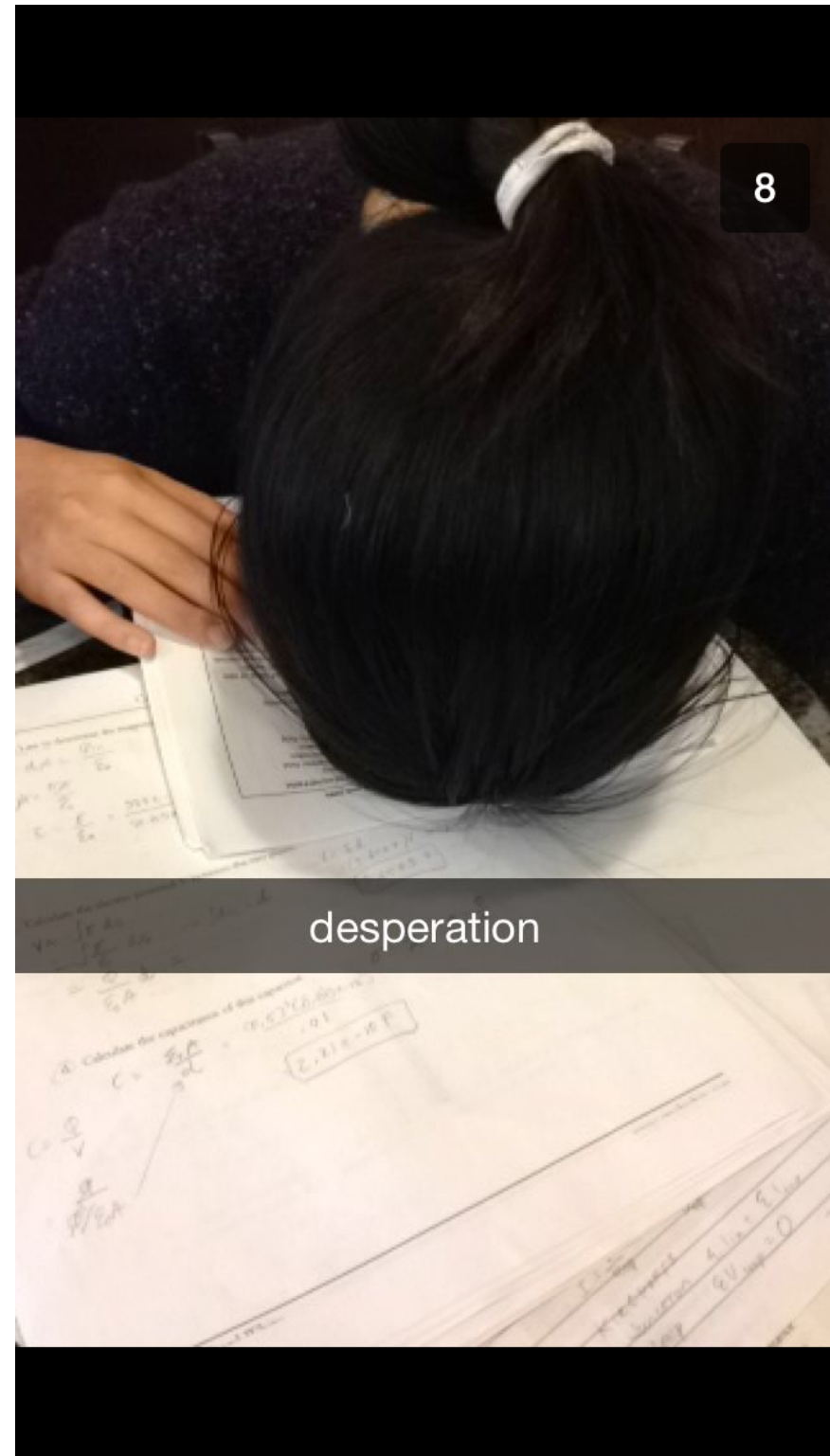
$$P = \frac{W}{t},$$

Grades

You're going to have some *really* hard material to be learned here.

Grades on tests, even if you study really well, will probably be lower than you might be used to in other classes—that's normal.

Part of my job is to make sure that your overall grade fairly represents your work, partly based on how well you do on tests but also based on how well you do with labs and homework.



Other Stuff

- My office: upstairs, Poly 205 (West end)
- My schedule: C, D, F
- Available: before school, A, B, E, G, Community Time, after school by appointment; also, I don't live in my office—if you know you will be looking for me, let me know in advance so I can be sure I'll be where you can find me . . .
- Restroom protocol
- Absences
- Tardies: “Hard stop, soft start”

Schedule on websites...

AP Physics C: Mechanics (F) - 76-1 (SciC) ☰

 Bulletin Board  Topics  Assignments  Grade Book  Roster

< > Today Day Week Month ☰ List   

Assigned Active Due + Assignment

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
			Study for test			
				Read Sec 3.1-3.3; do problem 3.1		
6	7	8	9	10	11	12
		problems 3.3, 3.7, 3.11, 3.13; Download Lab: Kinematics		Complete lab assignment		
			problems 3.15, 3.19, 3.23, 3.41		problems 4.1, 4.3, 4.5, 4.7	
13	14	15	16	17	18	19
	HW: 4.9, 4.11, 4.15, 4.17, 4.19, 4.21, 4.23		HW: 4.31, 4.32		HW: Complete lab assignment; Download Practice Test	
		HW: 4.27, 4.30		HW: 4.36, 4.37, 4.40, 4.42; Download Lab: Catch the Ball		

Schedule on websites...

9/4	9/5	9/6	9/7	9/8
LABOR DAY HOLIDAY	L-day 3 CLASS doesn't meet: 1.)	CLASS: (day 1 of rotation) 1.) do <i>Cart Lab (L-1)</i> (acceleration of cart)	CLASS: 1.) do Reflection Activity; 2.) talk briefly about formalized presentation of position, velocity and acceleration vectors (covered in first few sections of Ch 4); 3.) introduce 2-d projectile motion with cannon problem; 4.) Book Sections: 4.1, 4.2 and 4.3	L-day 3 CLASS: 1.) in-class Quiz--Speed 2.) <i>centripetal acceleration</i> and uniform circular motion (show old school video); 3.) <i>radial and tangential unit vectors</i> ; 4.) relative velocity and acceleration--graphical analysis; 5.) Book Sections: 4.4, 4.5 and 4.6
	HMWK: 1.)	HMWK: 1.) do Probs 3.19, 3.23, 3.41; 2.) complete lab write-up if not finished in class (this will be due on Friday)	HMWK: 1.) do Probs 4.1, 4.3, 4.5, 4.7 and 4.9	HMWK: 1.) do Probs 4.11, 4.15, 4.17, 4.19, 4.21 and 4.23;
9/11	9/12	9/13	9/14	9/15
L-day 3 CLASS: 1.) continue with topics from previous day; 2.) possibly show motoGP video; 3.) possibly do <i>2-d Air Table Lab</i> --determine radial and tangential acceleration of point on the curve . . . 4.) Book Sections: 4.4, 4.5 and 4.6	CLASS: 1.) do <i>To Catch a Ball Lab (L-3)</i> (run and shoot lab)	Day 6	CLASS: Test 2 (Ch's 3 and 4 -- vectors and 2-d kinematics)	CLASS: 1.) <i>island series LAB--(protractor and incline)</i> ; 2.) intro to Newton; 3.) mass; 4.) N.F.L. and N.S.L.; 5.) Book Sections: 5.1, 5.2, 5.3 and 5.4
HMWK: 1.) do Probs 4.27, 4.30, 4.31 and 4.32; 2.) download LAB-- <i>To Catch a Ball Lab (L-3)</i>	HMWK: 1.) do Probs 4.36, 4.37, 4.40 and 4.43; 2.) CHIPOTLE NIGHT from 5:30 to 7:00 PM		HMWK: 1.) take a break	HMWK: 1.) do Probs 5.1, 5.3, 5.5, 5.7 and 5.13; 2.) download Practice Test
9/18	9/19	9/20	9/21	9/22
L-day 3 CLASS: 1.) <i>gravitational force</i> ;	CLASS: 1.) N.S.L. problems; 2.) Book Section: 5.7	CLASS: 1.) do <i>NSL (Incline) Lab (L-)</i> ;	Day 6	CLASS: 1.) N.S.L. problems; 2.) Book Section: 5.7

The “class pdfs” file has changed...

CLASS pdfs

What follows are pdf's of some of the powerpoint presentations that have been given in class along with homework assignments.

[Folder for Kinematics in One Dimension.pdf's](#)
[Folder for Kinematics in Two Dimension.pdf's](#)
[Folder for Newton's Laws.pdf's](#)
[Folder for Centripetal Forces.pdf's](#)
[Folder for Energy.pdf's](#)
[Folder for Momentum and Collision.pdf's](#)
[Folder for Rotational Motion.pdf's](#)
[Folder Vibratory Motion.pdf's](#)
[Folder Wave Motion.pdf's](#)

[Semester Exam Instructions and Equations.pdf](#)

[Folder for Electrostatic Forces and Fields.pdf's](#)
[Folder for Electric Potentials and Energy Considerations.pdf's](#)
[Folder for DC Circuits.pdf's](#)
[Folder for Magnetic Fields.pdf's](#)
[Folder for Faraday's Law and Magnetic Induction.pdf's](#)
[Folder for AC Circuits and RMS Values.pdf's](#)
[Folder for Semiconductors.pdf's](#)
[Folder for Robotics Section](#)
[Folder for Radios](#)

[MAGIC MOUNTAIN information](#)

ENERGY pdfs

What follows are pdf's of some of the powerpoint presentations that have

[XtraWrk Problems for Energy Considerations \(Ch 5\)](#)

[Work/Energy Theorem](#)

[Conservation of Energy Derivation](#)

[Loop-the-Loop w Centr. Force and Energy](#)

[Ice Dome Problem\(s\)](#)

[Pendulum Problem](#)

[Springs](#)

[Energy Problem From Hell](#)

[Energy Summary](#)

[Test Summary](#)

[Multiple-Choice Test for Energy.pdf](#)

[Problem 5.1](#)

[Problem 5.4](#)

[Problem 5.5 \(good work problem\)](#)

[Problem 5.6](#)

[Problem 5.9](#)

[Problem 5.15](#)

[Problem 5.18](#)

[Problem 5.23](#)

[Problem 5.25](#)

[Problem 5.36](#)

[Problem 5.39 \(spring gun\)](#)

[Problem 5.50](#)

[Problem 5.60](#)

LECTURES

Section 2 -- Two-Dimension Kinematics

C Period:

pdf's

- [9 Sept L-1 \(vectors and 2-d kin\)](#)
- [10 Sept L-2 \(solving projectile probs and lab set-up\)](#)
- [11 Sept L-3 \(Tilted Table analysis and more projectile practice\)](#)
- [12 Sept L-4 \(To Catch a Ball lab\)](#)
- [13 Sept L-5 \(vectors and projectile test practice\)](#)

D Period:

pdf's

- [6 Sept L-1 \(vectors and 2-d kin\)](#)
- [9 Sept L-2 \(solving projectile probs and lab set-up\)](#)
- [10 Sept L-3 \(Tilted Table analysis and more projectile practice\)](#)
- [11 Sept L-4 \(To Catch a Ball lab\)](#)

CLASS pdfs

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- [Folder for Semiconductors.pdf's](#)
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- [Folder for Radios](#)

[MAGIC MOUNTAIN information](#)

2-d KINEMATICS pdfs

[Lectures](#)

[Problems and Solutions for 2-d Kinematics \(Ch 3\)](#)

LIGHTEN UP, FOLKS. IT'S NOT AS THOUGH
YOU'RE ENTERING A GREAT, SCARY PLACE!



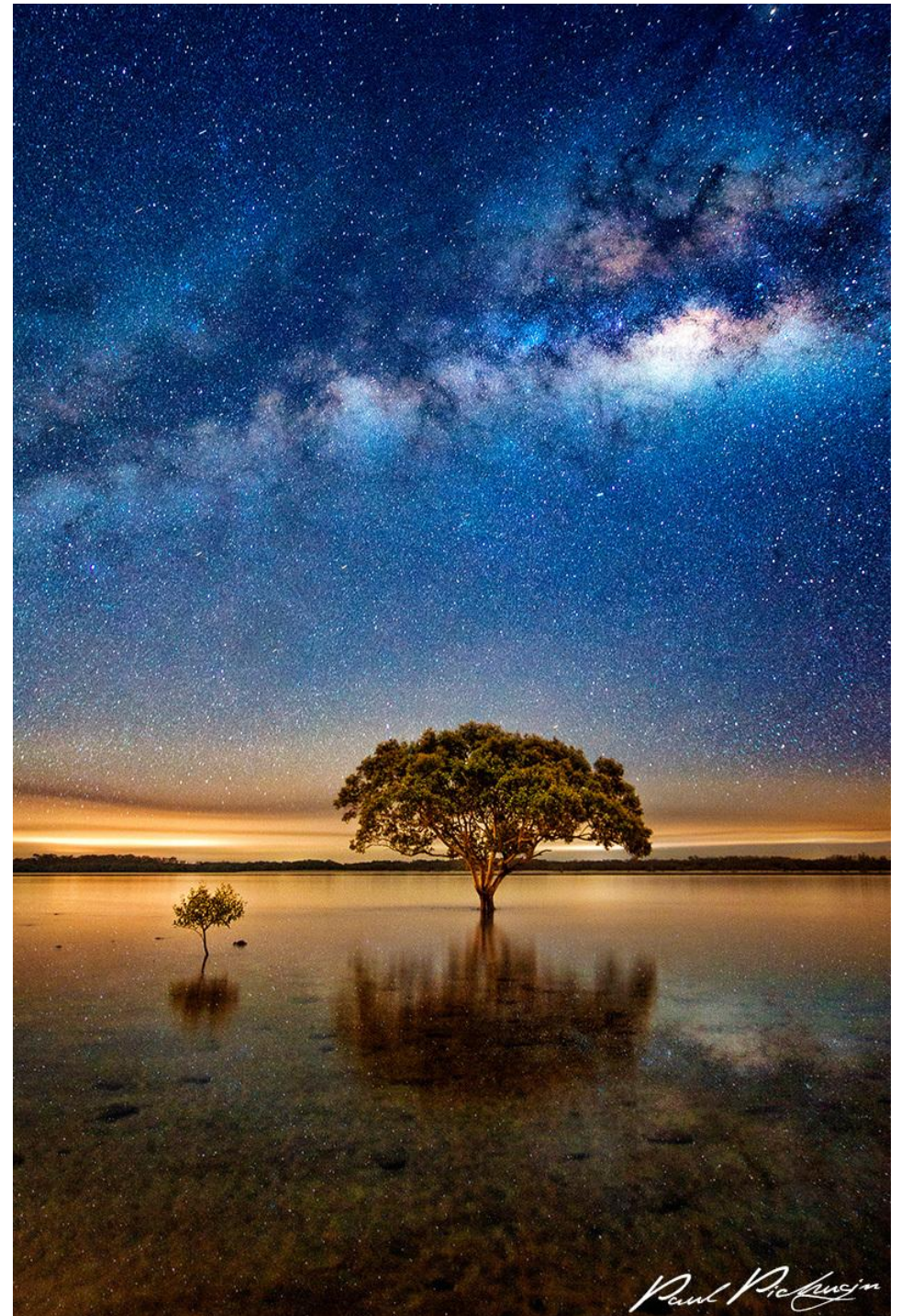
THINK OF IT MORE AS HOME--A COMFY,
COZY PLACE.



A PLACE WHERE YOU CAN ROMP
ENTHUSIASTICALLY.



WHERE YOU CAN
TAKE A MOMENT TO
STAND IN WONDER.



WHERE YOU CAN OCCASIONALLY BURY YOURSELF IN WORK.



AND FEAR NOT AS IT WON' T BE AS PAINFUL AS
HAVING A BABY, OR PULLING A WISDOM TOOTH
WITHOUT NOVACAINE, OR LOSING TO PREP,
AND THERE WILL BE AN END IN SIGHT

... SOMETIME AROUND 24,000,000 SECONDS FROM NOW,
AT THE END OF THE SCHOOL YEAR.

SO KEEP SMILING LADS AND LASSIES, CAUSE
LIFE COULD BE WORSE ... (AFTER ALL, YOU
COULD BE A PHYSICS TEACHER)



guided mind imagery