

***The Wave Song. Music by Lucinda Pillow,
lyrics by Andy “Dijon” French.***

F A
A pulse on a slinky passes by, a
Bb C
Disturbance called a *wave*
Am Dm
It moves along at a certain speed
Am Bb C
Tells coils how to behave
F A
Those springy little loops of wire
Bb Bb7
Contract and rarefact
Eb C F D G C
Longitudinal, is, the direction that it acts
Dm Bb C
It's called a P-wave, it's how you hear this song
F Bb
Air pressure rises up and down
C F C7
Not sideways (that's just wrong)

F A
But like a seismic shear
Bb C
We can wiggle our tensioned spring
A Bb A Bb C
A sinusoidal wave, propagates along the thing
F A
Disturbance perpendicular
Bb Bb7
To the direction it comes from
Eb C F
“Transverse,” is the name
D G C
Of this wave phenomenon
Dm
If you hold the slinky's end
Bb C
The wave it will invert
F Bb
Then travel back towards the source
C F D7
Where force your wrist exerts

G Bm
Waves, waves waves
C D G
Translate through time and space
Am Em
Tension over mass per unit length
A D D7
Can be the square of pace
G Bm
Waves, waves, waves

C B
In solids, liquids, gas
A Em
And in electric fields in space
D G C7
Which don't have any mass

F A
Electro-magnetic, waves are really fast
Bb C
300 million metres, every second that is past
A Bb
They don't need a medium, a vacuum is OK
A Bb C
Electrons can be moved, in a perpendicular way
F A
Radio's the longest wavelength
Bb Bb7
And the smallest frequency
Eb C F D G C
You need a mast that's pretty big, to use efficiently
Dm Bb C
Microwaves come next, with Radar and wi-fi
F Bb C
They're why your mobile phone works, and how you
F
heat a pie
Dm Bb
Infra-Red's produced, when things are, hot but don't
C
yet glow
F Bb C
A cloud moves fast, in the dark, and IR's how we
F D7
know

G Bm
Waves, waves waves
C D G
Translate through time and space
Am Em
Tension over mass per unit length
A D D7
Can be the square of pace
G Bm
Waves, waves, waves
C B
In solids, liquids, gas
A Em
And in electric fields in space
D G C7
Which don't have any mass

F A
 Red, Orange, Yellow
 Bb C
 Green, Blue, Violet (use IOW accent for 'Violet')
 A Bb
 The colours of a bathroom
 A Bb C
 And together make a toi---let (use IOW accent for 'toilet')
 F A
 See white is Red and Green and Blue
 Bb Bb7
 And black is none at all
 Eb C F D G C
 Many other combinations, can be daubed upon a wall
 Dm Bb C
 Avoid 255, 105, 180 – do please stop and think!
 F Bb
 This will give a hue most foul
 C F
 Your room will be hot pink

F A
 Ten and four hundred nanometres
 Bb C
 Is the wavelength of UV
 A Bb A Bb C
 It sterilizes bugs and helps make, vitamin D
 F A
 Insects see, with these waves
 Bb Bb7
 Makes flowers look quite odd
 Eb C F D
 And things fluoresce under UV
 G C
 Like spiders, rocks and frogs

(Instrumental) Dm Bb C F Bb C F D7

G Bm
 Waves, waves waves
 C D G
 Translate through time and space
 Am Em
 Tension over mass per unit length
 A D D7
 Can be the square of pace
 G Bm
 Waves, waves, waves
 C B
 In solids, liquids, gas
 A Em
 And in electric fields in space
 D G C7
 Which don't have any mass

F A
 Accelerate an electron, and it will give off X-rays
 Bb C
 Pass these through, bone and flesh, so damage be
 appraised
 A Bb
 Scan-a-man-in-slices, and you'll build, up a 3D model
 A Bb C
 Virtually dissect him, its really quite a doddle
 F A Bb Bb7
 X, ray, your baggage, reveal your drugs and guns
 Eb C F D G
 Diffract 'em off, molecules, work out their
 C
 construction
 Dm Bb C
 Finally we reach, the shortest EM waves
 F Bb C
 Gamma photons are their name, they're often cosmic
 F
 rays
 F A
 Excited nuclei, will, give off this radiation
 Bb Bb7
 Penetrates through, all but lead
 Eb C F D G C
 (Careful with your dose or you will end up dead
 Dm Bb C
 Gamma can be a tracer, checks your flow of blood
 F Bb C
 Or photograph turbine blades, finds which ones are
 F D7
 dud

G Bm
 Waves, waves waves
 C D G
 Translate through time and space
 Am Em
 Tension over mass per unit length
 A D D7
 Can be the square of pace
 G Bm
 Waves, waves, waves
 C B
 In solids, liquids, gas
 A Em
 And in electric fields in space
 D G
 Which don't have any mass

(Repeat chorus)

Andy "Dijon" French 2/11/2022

Lucinda Pillow 2023.