



**CURIOSITY**  
**in the CLASSROOM**  
THANKSGIVING POINT

## Seismic Waves with Slinkies

1. Identify 4 seismic wave movements you can make with your slinkies:

## Seismic Waves with Slinkies

2. How does amplitude change when you add more energy to the slinky?

3. How would energy and amplitude change as the seismic wave travels through:

Bedrock:

Loose Sediment:

Water-saturated Sediment:  
(wet sand or mud)

## Budget

Material	Quantity	Cost	Total
Spaghetti Noodle (each)		\$1.00	
Angel Hair Noodle (each)		\$1.50	
Lasagna (one sheet)		\$10.00	
Gummy Bear (each)		\$3.00	
Mini Marshmallow (each)		\$2.00	
Hot Glue Gun Stick (Glue gun included with purchase)		\$10.00	
1 Meter of Tape		\$7.00	
<b>Grand Total</b>			

### Total Budget of \$75

You may only buy up to:

- 2 sheets of lasagna
- 1 glue gun stick
- 2 meters of tape

Your Structure must fit the following requirements:

- It must be at least two floors tall (cardboard does not count as a floor)
- Each floor must be separated from other floors by a minimum of 10cm
- You must include a washer on one of your floors (both floors must be able to hold one; it cannot go on the cardboard base!)
- Allow rooms for clamps on the cardboard base

**DO NOT EAT ANY OF THE MATERIALS!**

**Design your structure here:**

## Reflection



1. What worked? What didn't?
2. What would you change and why?
3. What was your biggest constraint?
4. What would happen to your structure during an earthquake if it was built on:
  - a. Solid Bedrock:
  - b. Loose Sediment:
  - c. Water-saturated Sediment:

# Redesign of Structure



**THANKSGIVING  
POINT**