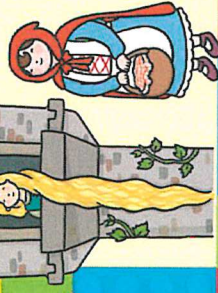


# Fun/STEM/HE Activity Four



# Building Challenge!

Make your favourite  
film, book or TV  
character using  
building bricks.



twinkl.co.uk

# Building Challenge!

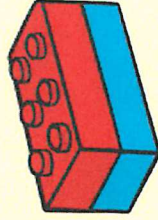
Make the first letter of your name  
using building bricks.

A B C

twinkl.co.uk

# Building Challenge!

Write your name using  
building bricks.



twinkl.co.uk

# Building Challenge!

Write your age using  
building bricks.

6 7 10

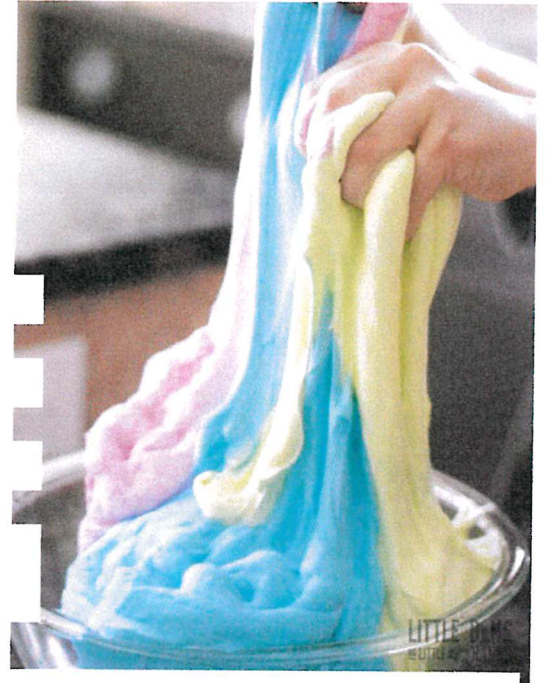
twinkl.co.uk



# Lets make slime

## Ingredients

- 1 cup of PVA Glue
- 2 cups of Foaming Shaving Cream
- Food Colouring or some paint
- A small amount of 'formil' washing clothes liquid



## Method

- Measure 2 cups of shaving cream into a bowl
- Next, add a 1 cup of PVA glue to the shaving cream and mix well.
- Add colour of your choice- either add a few drops of food colouring until desired colour is reached or alternatively add a few squirts of paint and mix until a consistent colour is got.
- Add the washing liquid bit by bit, constantly mixing together.
- Whenever the mixture starts to come away from the sides and begins to resemble a sticky texture, begin working with it in your hands.
- Continue to add small amounts of the washing liquid if necessary until the slime is no longer sticking to your hands and you are able to freely play with it.
- Be careful you don't add too much liquid!!

You will use the Engineering Design Process to help with your invention. Follow the steps below:

**Imagine and Plan:** Imagine what you could use to amplify the sound on your phone. Plan how you will amplify the sound. Use words and pictures to record your plan below for each item.

ceramic cup	cardboard tube	paper
ceramic bowl	drinking glass	paper cup

**Test your plans:** Record your results in the table below.

Item Being Tested	Is the Sound Louder or Quieter?	Is the Sound Quality Better or Worse?

**Evaluate:** Every experiment has successes and problems. What problems did you face in this experiment? How will you overcome them next time? What went really well?

Some keywords you could use: louder, quieter, sound wave, amplify, height, vibrate, funnel, material.

**Conclusion:** What were the outcomes of your experiment? Which device worked the best? Why do you think this is, based on your knowledge of sound waves?

Some keywords you could use: louder, quieter, sound wave, amplify, height, vibrate, funnel, material, improve, hypothesis, results.



# Activity 4



## DEFEND YOUR CASTLE GAME

**Great for: a game for you and a friend**

**You will need:**

- A shield made out of cardboard (see activity 3 for instructions)
- At least three foam balls or screwed-up paper balls

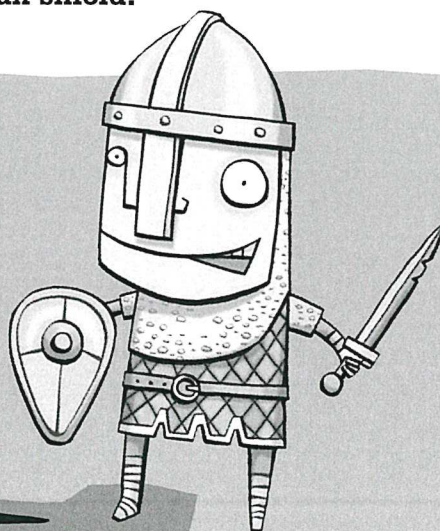
**Play the game:**

- One person is the Defender and one is the Attacker.
- The Defender stands in one spot with their shield. They are not allowed to step in any direction. But they are allowed to turn, twist, bend and reach.
- The Attacker can move anywhere around the Defender but mustn't get close enough to touch them.
- The Attacker has three balls to throw at the Defender to try to hit their legs, arms or body (but not head). If a ball bounces off, the Attacker can reuse it.
- The Defender must use their shield to stop the balls from hitting them.
- Once the Attacker scores three hits, the two players swap places.



**You've defended your castle using your own Norman shield.**

Find castles to visit near you  
on our interactive map online –  
[bbc.co.uk/history/handsonhistory](http://bbc.co.uk/history/handsonhistory)



[bbc.co.uk/history](http://bbc.co.uk/history)

BBC  
**HANDS ON  
HISTORY**  
THE NORMANS

### **Week 3& 4 : Home Economics KS3 and KS4**

Please find below tasks some pupils may be able to complete or experience with support at home.

#### **Daily Tasks**

*Please find below tasks some pupils may be able to complete or experience with support at home.*

- Encourage pupils to set the table every night, assist or wash and dry dishes away in the correct places also.
- Encourage pupils to make their bed everyday if they can and tidy their rooms.
- Where possibly as a family talk about what will be made for lunch and dinner every day. Make simple lunches and teas.
- Recycling: Encourage pupils to recycle items properly using the bins provided

#### **Multi-Cultural foods:**

*Please find below tasks some pupils may be able to complete or experience with support at home.*

- Find different countries on the world map
- What foods are eaten in these different countries?
- Talk about the foods eaten
- Research different cooking methods, different equipment and utensils in different countries.
- Opt: Print out, stick in and label pictures on paper.
- What popular foods are eaten in Italy, China, and India?
- Discuss where can ingredients be bought? Are there any specialist foods shops in your area?
- Work out the cost of some of the recipes below for your family:
- Sweet and sour chicken
- Chicken fajitas
- Tacos
- Pizza Base - add toppings
- Champ

Design poster/information leaflets on different countries, cultures and foods.

**Useful website: [www.foodafactoflife.org.uk](http://www.foodafactoflife.org.uk)**



## French Bread Pizza



### **Ingredients:**

French bread  
Ham/pepperoni  
Tomato puree  
Cheese  
Pineapple  
Mixed herbs

### **Equipment:**

white/yellow chopping board  
vegetable knife  
knife  
2 large/2 small plates  
Grater  
Table Mat  
Cup  
Fork

### **Method:**

1. Collect all equipment.
2. Collect all ingredients.
3. Turn on grill to number 4.
4. Cut ham/pepperoni and pineapple into small pieces.
5. Grate cheese.
6. Spread tomato puree onto the French bread.
7. Sprinkle mixed herbs.
8. Add ham and pineapple then grated cheese.
9. Grill pizza for 5 minutes.
10. Clear table, wipe table, wash dishes, dry and put away.