

# Lockdown activities

Thursday 16<sup>th</sup> April

## Science activities



## PAPER PLATE SUNDIAL

### WHAT YOU'LL NEED:

- paper plate
- crayons
- pencil (sharpened)
- push pins
- plastic straw
- ruler



### INSTRUCTIONS:

1. Start this project just before noon on a sunny day.
2. Take your pencil and poke a hole through the center of the plate.
3. Write the number 12 at the top of the plate with a crayon.
4. Draw a straight line from the number 12 to the center of the plate.
5. Once it's noon, take the plate and straw outside, and place the plate on the ground and poke the straw through the center.
6. Now turn the plate so the shadow of the straw runs along the line to the number 12.
7. Fasten the plate on the ground with some push pins, and check back with the sundial an hour later.

Where do you think the shadow will be positioned?

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# BUILD A STRING TELEPHONE

Use sound's unique properties to make an unconventional phone!

## WHAT YOU'LL NEED:

- Two paper or plastic cups, large enough to fit over your ear
- Paperclips
- Two small washers
- String or fishing line, up to 30 feet long
- A friend to help!



## HOW TO DO IT:

1. Carefully punch a hole in the bottom of each of the cups. You can do this by straightening out a paper clip and using it to puncture the cup. If you are using a plastic cup you may want to use a nail (along with the help of an adult) to make the hole.
2. Now, thread the ends of the strings through each of the cups. The string should be threaded through the bottom of the cup. You can use the straightened paper clip to get the string through the hole if it starts to fray.
3. Once inserted into the cup, tie the ends of the strings to a washer. This will keep the string from being pulled out of the cups.
4. You're now ready to try out your phone! If you haven't already, grab a friend to see how it works.
5. Each person should take a cup and slowly move away from each other until the string is pulled tight.
6. Keeping the string tight, have one person put the cup to their ear and let the other talk. See what happens!
7. Switch with your friend and try again. You can keep experimenting by seeing what happens when the string isn't pulled tight or how different lengths and types of strings modify the sound.



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## Quick games

What would you do if...

START

1. You meet a superhero.
2. Your best friend moves to another city.
3. You see a burglar enter your neighbors' house.
4. You are invited to a party but you don't want to go.
5. You get a bad grade.
6. A black cat crosses your way in the morning.
7. You are at the beach and it rains all day long.
8. You crash your father's new car.
9. Your brother tells you a secret.
10. You find a lot of money in the underground.
11. Your cat can speak.
12. A rat is in your room.
13. Someone offers you food you find disgusting.
14. An alien spaceship invades Earth.
15. You are president of your country for 1 month.
16. Your boy(girl) friend is cheating on you.
17. You are a famous person.
18. Cell phones are forbidden in your country.
19. School doesn't exist any more.
20. You suddenly are 10 years older.
21. You miss your plane. You won't be on time for an important business meeting.
22. You have to move out of your home.
23. You can become invisible.
24. You speak 6 languages.
25. Your friend has been arrested for a crime he didn't commit.
26. You lose a book a friend lent you.
27. You suddenly can fly.
28. You find a cave with an archeological treasure.
29. You are the English teacher for one week.
30. You find a time machine.
31. You have 1 wish.
32. You can speak to dead people.

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# WHICH ANIMAL AM I?

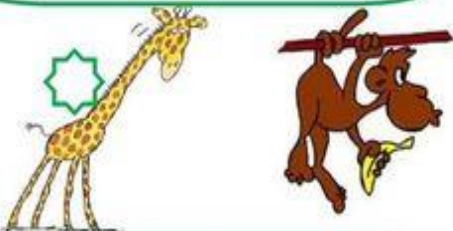
1. I live on land. I've got sharp teeth. I'm a wild mammal. I eat meat. People call me "The King of Jungle". Which animal am I?



3. I live both on land and in the sea. I'm green. I'm a reptile. Which animal am I?

5. I live in the trees and like to climb. I like bananas. I've brown fur. Which animal am I?

7. I'm an insect. I make honey and I've got wings. Which animal am I?



9. I'm a reptile and green. I'm small. I've got a tail. Which animal am I?

11. I'm a wild animal and a mammal. I've got paws. Which animal am I?



13. I'm a mammal. I've got big ears. I've got a trunk and four legs. Which animal am I?

15. I'm a pet. I'm crazy about carrots. I've got long ears. Which animal am I?



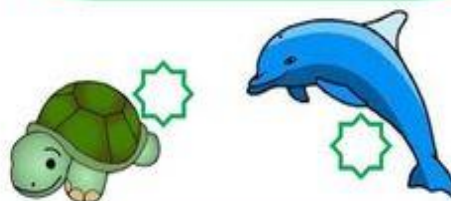
2. I swim in the sea. I've got sharp teeth. I'm a wild animal. Which animal am I?



4. I live on farm. I'm a mammal. I've got black and white fur. People milk me and eat my meat. I eat grass. Which animal am I?

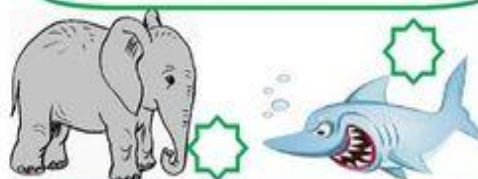
6. I live on land. I have a long neck and horns. I'm orange and yellow. Which animal am I?

8. I live in water. I'm a mammal. I've got fins. I weigh 200 to 500kg. Which animal am I?



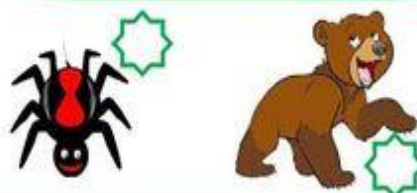
10. I'm a bird. I've got colourful feathers. I can talk. Which animal am I?

12. I'm a farm animal. People ride me. I've got four legs and a tail. Which animal am I?



14. I'm an insect. I've got eight legs. I hunt other insects. Which animal am I?

16. I'm a bird. I've got white feathers and wings. I'm very beautiful. Which animal am I?



## Chocolate slice

150g melted butter  
2/3 cup brown sugar  
1 egg  
1 cup flour  
½ cup coconut  
¼ cup cocoa



Line a slice tin with baking paper and turn oven to 160 deg.

Mix all ingredients together and press into a slice tin.

Bake for 20 mins.

When cool ice with chocolate icing and sprinkle with coconut.

### Chocolate icing:

1 cup icing sugar  
1 tablespoon cocoa

Water to mix into a paste.

Sift cocoa into a small bowl and mix in the icing sugar. Add some water (1 tablespoon at a time) until you reach a spreadable consistency.