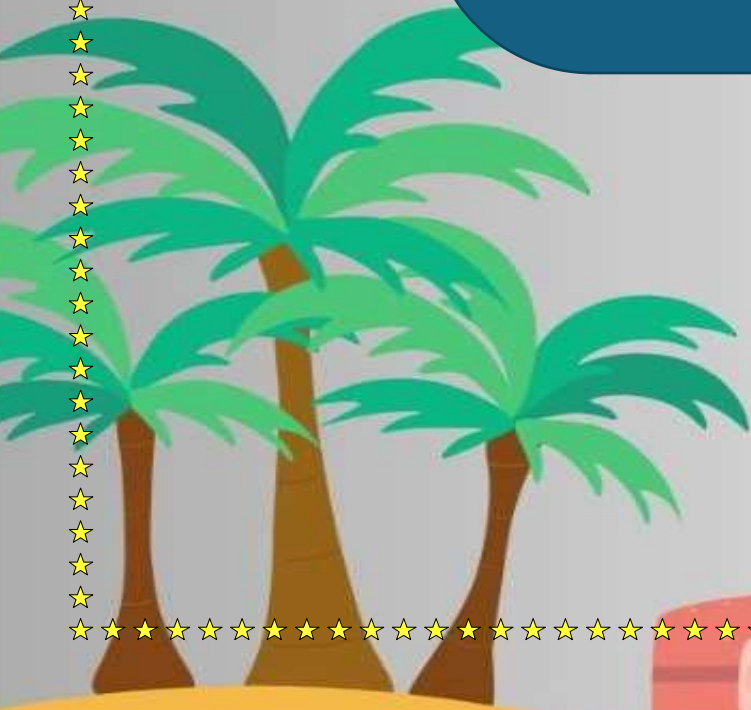


# Summer Holiday Homework

Name- .....  
Nickname- .....  
Class- ..... Roll no- .....

**Class: 7F**



**Dear Parents**

**Vacation is an excellent time to learn new skills. It is a welcome break for the children to enjoy and explore things in their own way. Just the right time to let the children do some creative work. Here are some interesting and fun-filled assignments for the children to learn and keep them occupied during the holidays. These assignments have been designed to ensure that the children enjoy and learn at same time. We would appreciate if the children do the assignments on their own. Help and guidance may be given wherever required. Let's work together towards the betterment of the students. Happy Holidays!!**

**PROJECTS:**

## SST

: Roll 1 -6 **Make a model on "Earth's Interior " (layers of earth)**

## SCIENCE

Roll number 7-13

### Lemon Battery

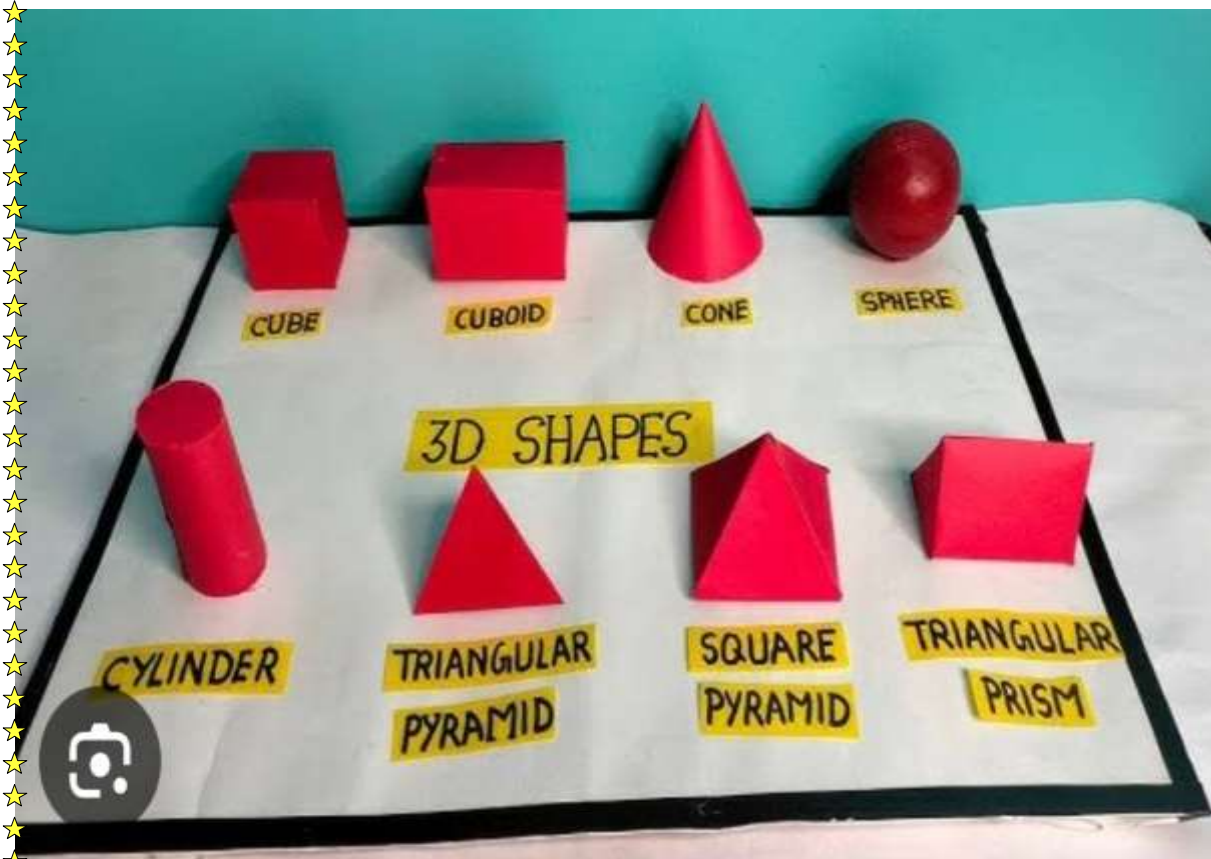
- Concept: Electrochemical Cells
- Materials: Lemon, zinc-coated nail, copper coin, wires, small LED bulb

Procedure: Insert the zinc-coated nail and copper coin into the lemon, connect them with wires to the LED bulb, and observe how the acidic juice generates

electricity to light the bulb.

## MATHS

Roll number 14 to 18



## ENGLISH

### English project

Roll no 19 to 23

Project work -English activity: Make a chart of \*adverb and its types.\* Use your creativity to enhance the appearance of it.

HINDI



Roll number 24 to 28. प्रत्येक में 10 संज्ञा 10 सर्वनाम तथा 10 विशेषण ऊपर नीचे करके लगाए

## English class 7 worksheet

### Part A: Bonus – Noun

Circle the correct answer.

- Which of these is a proper noun?  
a) City (b) Dog (c) London (d) Fruit
- What type of noun is “book”?  
a) Proper. B) Action c) Common d) Verb
- Which noun is a person?  
a) Hospital. b) Teacher c) Chair d) Apple

### Part B: Identify the Verbs and Adverbs

**Underline the verb and circle the adverb in each sentence.**

- She ran quickly to the door.
- He speaks softly in class.
- The cat jumped gracefully
- They laughed loudly at the joke.
- I walked slowly in the rain.

### Part C: Choose the Correct Adverb

Fill in the blank with the most appropriate adverb from the word bank.

Word Bank: quietly, happily, fast, gently, angrily

- The baby slept \_\_\_\_\_.
- She smiled \_\_\_\_\_ at her friend.
- The dog barked \_\_\_\_\_ at the stranger.
- He ran \_\_\_\_\_ to catch the bus.
- The nurse touched the wound \_\_\_\_\_.

### Part D: Multiple Choice – Noun Quiz

Circle the correct noun in each sentence.

- The (run / dog / quickly) barked at the mailman
  - She drew a picture of a (color / house / fast).
  - My (happy / friend / jump) lives next door
- Subject – Hindi summer vacation work

## HINDI

भाग - 1 : व्याकरण अभ्यास

### 1. निम्नलिखित शब्दों में उपसर्ग छाँटिए

- (क) अनुशासन (ख) पुनःप्रयोग (ग) अपकार (घ) अचेत (ङ) निस्वार्थ  
(च) उपकार (छ) प्रस्ताव (ज) संप्रेषण (झ) अभिलाषा (ञ) बहिर्गमन

### 2. निम्नलिखित शब्दों में प्रत्यय पहचानिए

- (क) सेवक (ख) बालक (ग) सजावट (घ) चालक (ङ) लेखन  
(च) शिक्षक (छ) वृद्धावस्था (ज) उपयोगी (झ) मिठाई (ञ) नर्तकी

### 3. नीचे दिए गए वाक्यों में संज्ञा शब्द पहचानकर रेखांकित कीजिए (5) :

- (क) सीता स्कूल जा रही है। (ख) मोहन ने फूल तोड़ा।  
(ग) भारत एक महान देश है। (घ) पुस्तक ज्ञान का स्रोत है।  
(ङ) सूरज पूर्व से निकलता है।

### 4, वचन बदलिए

बच्चा → \_\_\_\_\_ फूल → \_\_\_\_\_  
लड़कियाँ → \_\_\_\_\_ आदमी → \_\_\_\_\_ पुस्तक → \_\_\_\_\_

### 5 एक रचनात्मक पेड़ बनाकर उसमें 7 कारक और उनके उदाहरण दर्शाइए।

(चित्र बनाकर सात शाखाओं में कारकों के नाम और एक-एक उदाहरण दर्शाएं)

### 6, पाठ - "क्या निराश हुआ जाए" को पढ़ें और उसकी समीक्षा अपने शब्दों में करें।

मार्गदर्शन के लिए: लेखक का दृष्टिकोण पाठ का मुख्य संदेश, आपके विचार

**पत्र लेखन** 7अ. अपने मित्र को जन्मदिन की शुभकामनाएँ देते हुए एक पत्र लिखिए

7 ब अपने विद्यालय के प्रधानाचार्य को फीस माफी के लिए एक प्रार्थना पत्र लिखिए।

**निबंध लेखन** विज्ञान: वरदान या अभिशाप। (ख) योग दिवस। (ग) पर्यावरण  
बचाओ



## Subject- MATHEMATICS

### WORK SHEET

#### Chapter- 4, SIMPLE EQUATION

1. Solve the equations

(a)  $\frac{3x}{3} - 8 = 10$

(b)  $5n + \frac{3}{5} = 10$

(c)  $3(2x - 4) = 25$

(d)  $3(2n + 5) = 2n - 8$

2. (i) Frame 3 equations with  $x = 4$ .

(ii) Frame 4 equations with  $x = -3$ .

(iii) Frame 3 equations with  $y = -5$ .

3. One -fifth of a number  $x$  minus 4 gives 4. Find  $x$ .

4. If you add 6 to one-third of a number, you get 20. Find the number.

5. When 16 is subtracted from seven times a number the answer is five times the number. Find the number.

6. Prabhat's age is 5 years more than five times the age of his son. Find the age of his son. If his age is 40 years.

7. When you subtract 15 from twice of a number, the result is 35. Find the number.

8. A municipal corporation planted mango trees and guava trees along the sides of a park. The number

of mango trees is 5 more than twice of guava trees. If the number of mango trees is 25, find the

number of guava trees.

9. Solve:  $\frac{3x}{2} = \frac{5x+8}{6}$

10. Solve:  $(e) - 5(2x - 2) = -2$

#### Chapter- 5, LINES AND ANGLES

Q1 Fill in the blanks-

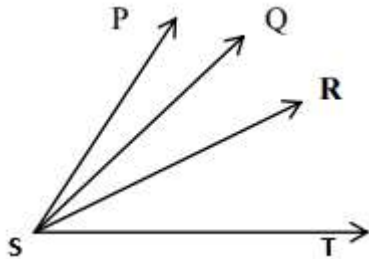
(a) The measure of a linear pair angles is -----.

(b) An adjacent pair of angles have a common ----- and a common -----.

(c) In a linear pair angles, the non-common arms form opposite -----.

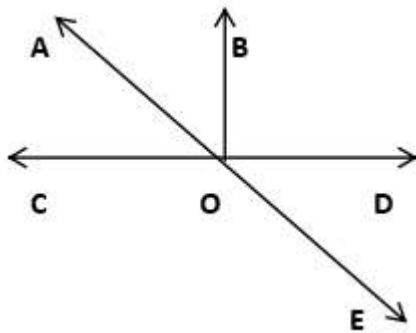
- (d) One of the angles of a linear pair is  $45^\circ$ , and then the measure of other angle is -  
-----.
- (e) A ----- is common in vertically opposite angles.

Q2. Name all the adjacent angles-



Q3. If  $(5x - 1)^\circ$  and  $(5x - 19)^\circ$  form a linear pair, and then find the value of x.

Q4. In the fig. BO is perpendicular to CD, then name-

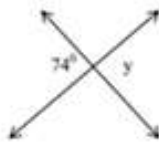


- (i) two linear pairs. (ii) two pairs of vertically opposite angles (iii) three pairs of adjacent angles
- (iv) one pair of complementary angles (vi) one pair of supplementary angles.

Q5. Look at the following figures and fill in the blanks –

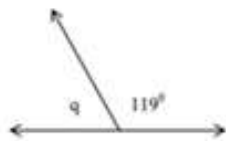


(i)



$y = \dots\dots\dots$

(ii)

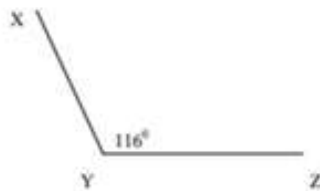


$q = \dots\dots\dots$

(iii)

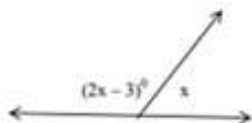


(iv)



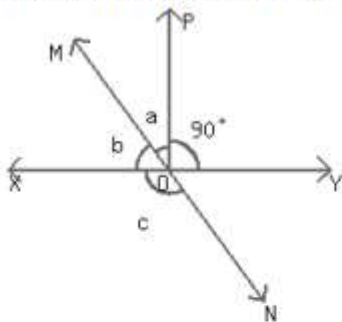
Supplement of  $\angle XYZ = \dots\dots\dots$

(v)

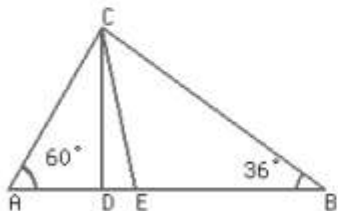


$x = \dots\dots\dots$

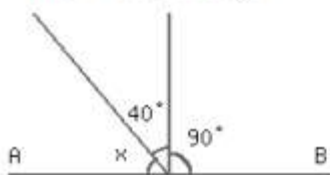
**Q6** If lines XY and MN intersect as shown below and  $a:b = 2:3$ , find  $c$ .



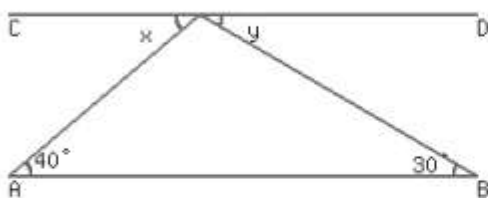
**Q7** If CD is perpendicular to AB and CE bisects angle  $\angle ACB$ , find  $\angle DCE$ .



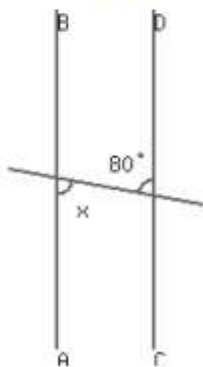
**Q8** What is the angle between the minute and the hour hands of the clock when the clock shows 1:00?  
Find the measure of angle  $x$ .



**Q9** If AB and CD are parallel, find the measure of  $x + y$ .



**Q10** If AB and CD are parallel, find the value of  $\angle x$ .



## Science

### Worksheet

#### Light and Electric current

## Light -

### Section A: Fill in the Blanks

1. Light travels in a \_\_\_\_\_ line.
2. The splitting of white light into its seven constituent colors is called \_\_\_\_\_.
3. An image formed by a plane mirror is \_\_\_\_\_.
4. The image formed by a convex lens is \_\_\_\_\_.
5. The image formed by a concave lens is \_\_\_\_\_.
6. The bending of light when it passes from one medium to another is called \_\_\_\_\_.
7. The \_\_\_\_\_ is used to form a real and magnified image.
8. The \_\_\_\_\_ is used to form a virtual and diminished image.
9. The \_\_\_\_\_ is used in flashlights and torches.
10. The \_\_\_\_\_ is used in magnifying glasses.

### ♦ Section B: True or False

1. Light can travel through a vacuum. (True/False)
2. A concave mirror can form both real and virtual images. (True/False)
3. A convex lens can form both real and virtual images. (True/False)
4. The image formed by a concave lens is always virtual. (True/False)
5. The image formed by a convex mirror is always virtual. (True/False)

### ♦ Section C: Multiple Choice Questions (MCQs)

1. What is the speed of light in air?
  - a)  $3 \times 10^8$  m/s
  - b)  $3 \times 10^6$  m/s
  - c)  $3 \times 10^{10}$  m/s
  - d)  $3 \times 10^9$  m/s

2. Which of the following is used to form a real and magnified image?
- a) Concave lens
  - b) Convex lens
  - c) Concave mirror
  - d) Convex mirror
3. Which of the following is used to form a virtual and diminished image?
- a) Concave lens
  - b) Convex lens
  - c) Concave mirror
  - d) Convex mirror
4. The bending of light when it passes from one medium to another is called:
- a) Reflection
  - b) Refraction
  - c) Dispersion
  - d) Diffraction
5. The splitting of white light into its seven constituent colors is called:
- a) Reflection
  - b) Refraction
  - c) Dispersion
  - d) Diffraction

◆ **Section D: Short Answer Questions**

1. Define reflection of light.
2. What is refraction?
3. Explain the formation of a rainbow.
4. Differentiate between real and virtual images.
5. What is the role of a convex lens in the human eye?

---

◆ **Section E: Diagram-Based Questions**

1. Draw the diagram of a concave mirror and show the image formation for an object placed at different positions.

2. Draw the diagram of a convex lens and show the image formation for an object placed at different positions.
3. Draw the diagram showing the dispersion of light through a prism.

◇ **Section F: Higher Order Thinking Skills (HOTS)**

1. Why does a pencil appear bent when placed in a glass of water?
2. Explain why the sky appears blue during the day and red during sunset.
3. How does a rearview mirror in vehicles help drivers?

## **Electric Current-**

### **Section A: Fill in the Blanks**

1. The flow of electric charge through a conductor is called \_\_\_\_\_.
2. The unit of electric current is \_\_\_\_\_.
3. A device used to break an electric circuit in case of excess current is called a \_\_\_\_\_.
4. The heating effect of electric current is utilized in \_\_\_\_\_.
5. An electromagnet is made by \_\_\_\_\_ a wire around a piece of iron.
6. The magnetic effect of electric current was discovered by \_\_\_\_\_.
7. The device that produces light by heating a filament is a \_\_\_\_\_.
8. The flow of electric current through a conductor produces \_\_\_\_\_.
9. The symbol for a battery in a circuit diagram is \_\_\_\_\_.
10. A \_\_\_\_\_ is used to protect an electric circuit from overload.

◇ **Section B: True or False**

1. An electric current can flow through an open circuit. (True/False)
2. The heating effect of electric current is used in electric bulbs. (True/False)
3. An electromagnet is a permanent magnet. (True/False)
4. The magnetic effect of electric current is used in electric bells. (True/False)
5. A fuse is used to increase the current in a circuit. (True/False)

◇ **Section C: Multiple Choice Questions (MCQs)**

1. Which of the following is used to protect an electric circuit from overload?

- a) Switch
- b) Fuse
- c) Battery
- d) Bulb

2. The heating effect of electric current is used in:

- a) Electric fan
- b) Electric bulb
- c) Electric bell
- d) Electric motor

3. The magnetic effect of electric current is used in:

- a) Electric bulb
- b) Electric fan
- c) Electric bell
- d) Electric heater

4. An electromagnet is made by:

- a) Passing current through a coil of wire wound around a piece of iron
- b) Using a permanent magnet
- c) Using a coil of copper wire
- d) Using a piece of steel

5. The unit of electric current is:

- a) Volt
- b) Ampere
- c) Ohm
- d) Watt

◇ **Section D: Short Answer Questions**

1. Define electric current.
2. What is the role of a fuse in an electric circuit?
3. Explain the heating effect of electric current.
4. What is an electromagnet? How is it made?

5. Describe the magnetic effect of electric current.

◇ **Section E: Diagram-Based Questions**

1. Draw a labeled diagram of a simple electric circuit consisting of a battery, connecting wires, and a bulb.
2. Draw the symbol for an electric cell and a battery in a circuit diagram.
3. Draw a diagram to show the formation of an electromagnet.

◇ **Section F: Higher Order Thinking Skills (HOTS)**

1. Why does the filament of a bulb glow when electric current passes through it?
2. Explain why a fuse is important in household electrical appliances.
3. How can the strength of an electromagnet be increased?



## Subject: Social Science

### Worksheet

Do this worksheet in your geography notebook.

#### Short Answer type questions :

Q1.What are the three layers of the earth?

Q2.What is a rock?

Q3.Name three types of rocks.

Q4. What is the radius of the core?

Q5. What happens when igneous and sedimentary rocks go under great heat and pressure?

Q6. Why do the plates move?

Q7. Can you find out names of some rivers of the world that form delta?

Q9 There are two statements given below, marked as Assertions (A) and Reasons (R) . Read the statements and choose the correct option.

**1.Assertion (A): The uppermost layer over the Earth's surface is called Crust.**

**Reason (R) : The thinnest layer of all the layers of the earth's surface is its uppermost layer.**

- a.) Only A is correct
- b.) Both A and R are correct and R explains A
- c.) Only R is correct
- d.) Both are incorrect

**2.Assertion (A): Main mineral constituents of the continental mass is Silica.**

**Reason (R) : Si stands for Silica and Ma stands for magnesium**

- a.) Both A and R are correct but does not explains each other
- b.) A and R clearly explains each other
- c.) Only R is correct
- d.) Both are incorrect

**3.Assertion (A): There are two forces which act inside and outside of the Earth.**

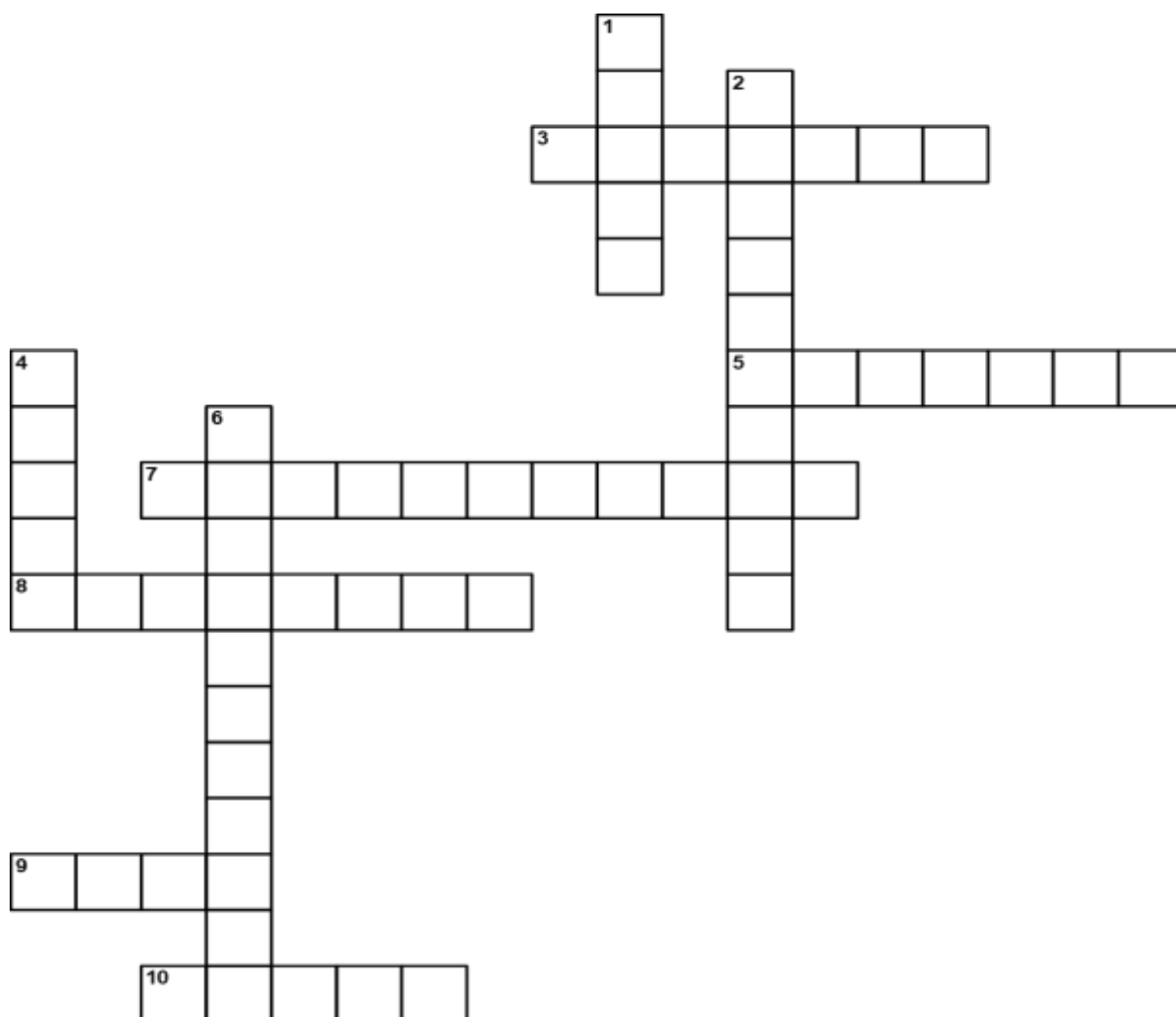
**Reason (R) : Endogenic forces are the one which causes destruction like Earthquakes and Volcanoes.**

- a.) Both are correct and R clearly explains A
- b.) Only A is correct
- c.) Both are correct but R is not the explanation of A
- d.) Only R is correct

Q10 Match the following

Core	Changes into slate
Minerals	Used, for building roads and buildings
Rocks	Made of silica and alumina
Clay	Has the definite chemical composition
Sial	Innermost layer

## The Rock Cycle



### Across

- [3] Type of rock formed from magma or lava.  
 [5] The process of moving the broken pieces of rock.  
 [7] Type of rock formed by heat and pressure.  
 [8] Broken pieces of rock  
 [9] hot molten or semi fluid rock erupted from a volcano  
 [10] A never ending process. The Rock cycle shows how rocks change from one type to another.

**Down**

**[1]** hot fluid or semi-fluid material below or within the earth's crust from which lava and other igneous rock is formed by cooling.

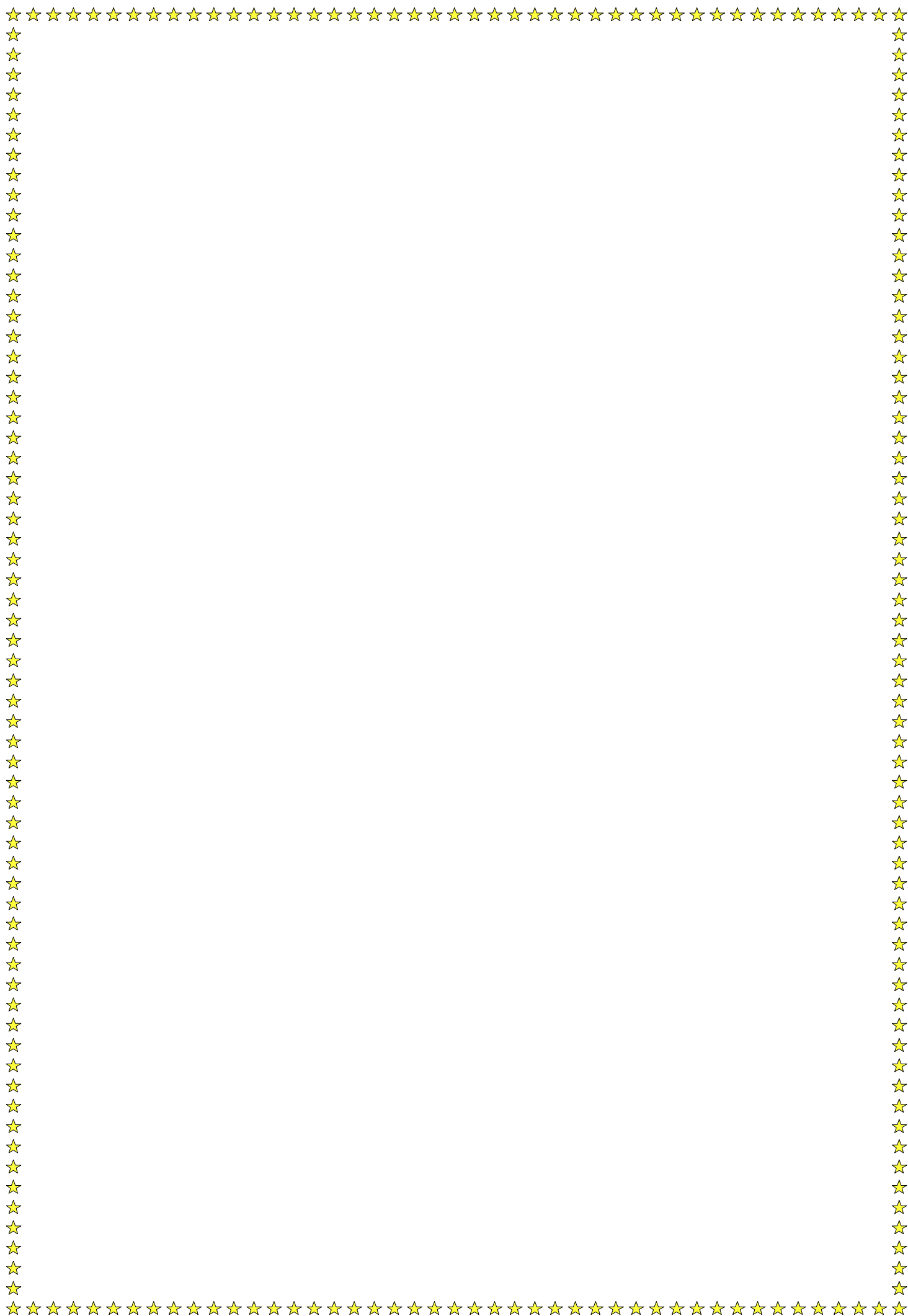
**[2]** The process of wearing down rocks into broken pieces

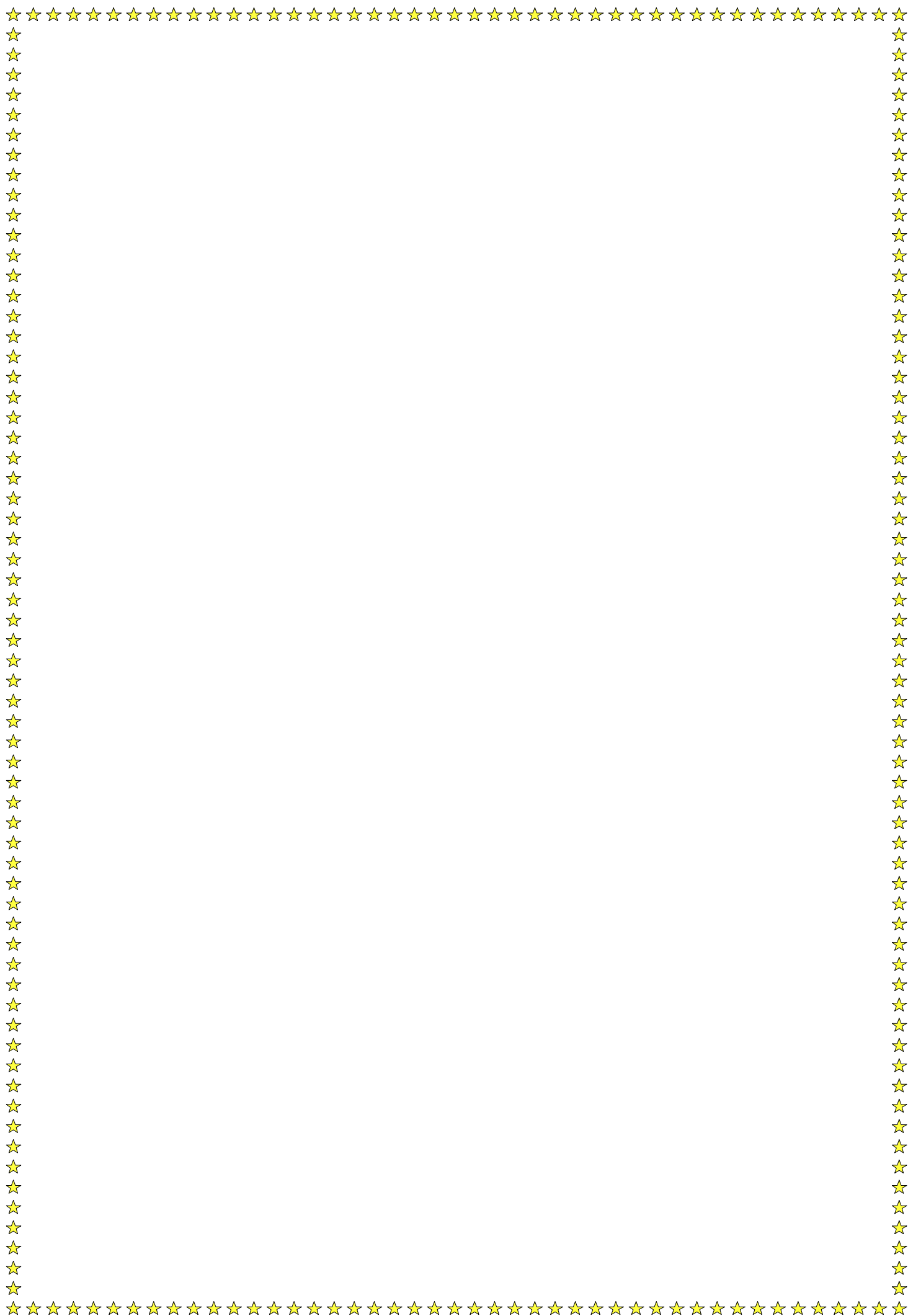
**[4]** Mixtures of two or more minerals

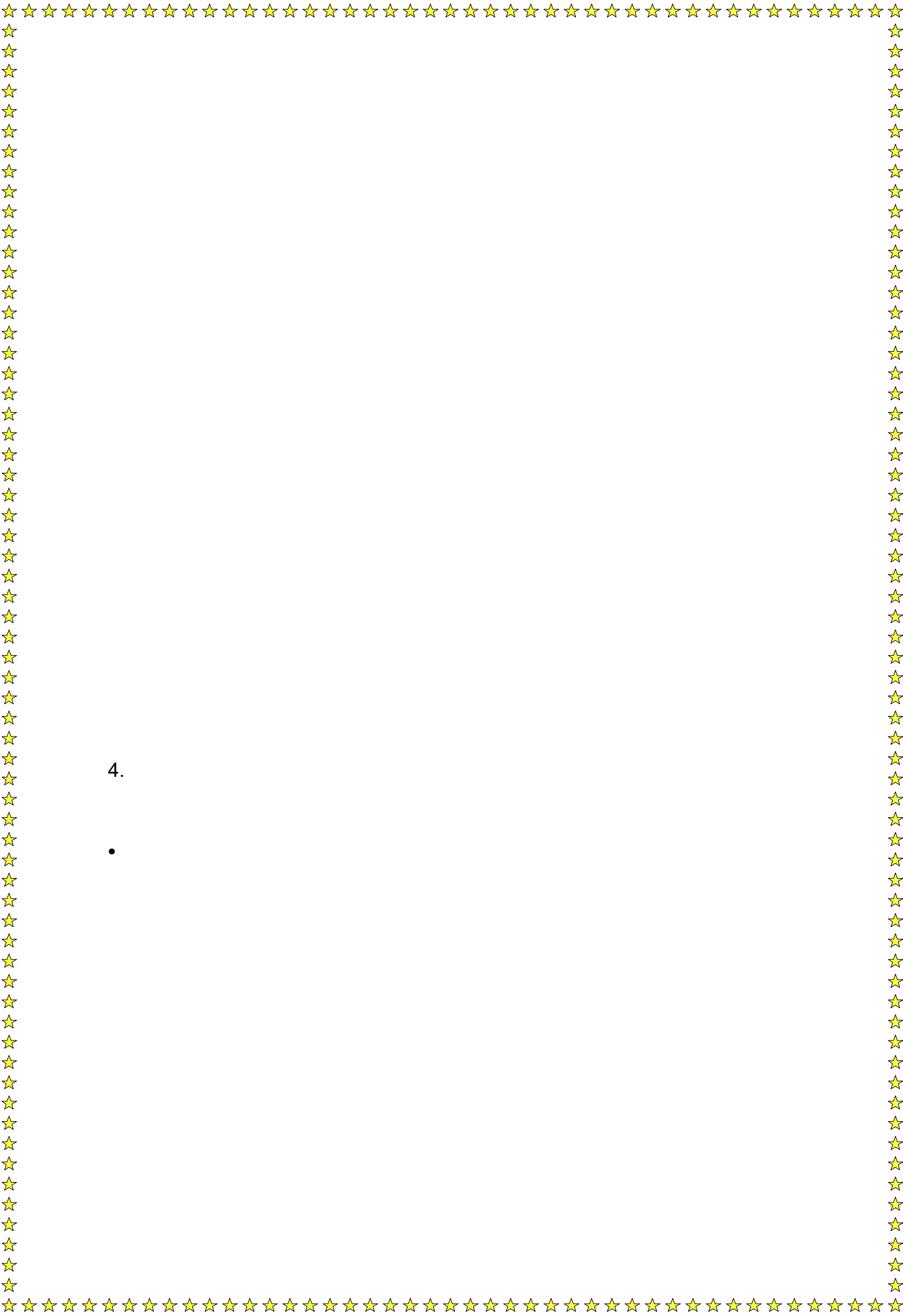
**[6]** Type of rock formed from sediment, or broken-down rocks, minerals, sand, and mud.

Do all the work according to requirement and do all the worksheet in your fair notebook

Thank you







4.

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