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Topicwise Assignment

	All	Changes	Alway	s Be	Rever	rsed?
can	L					

1					
raft	All	Changes Always I	Be Reverse	ed?	
	Tick	(/) the natural change	ges in the fo	ollov	ving:
Α.		Blooming of flowers	N		Plucking of flower
		Ripening of mango	O	4.	Cooking of food
		Change of seasons	O .	6.	Trimming of nails
		Increase in height	A	8.	Baking of bread
		Blowing of wind	D.	10.	Rusting of iron
	D. There State Sta	ch of the following ch	anges canno	ot b	e reversed? [NCERT Exemplar Problems]
В.		Blowing of a balloon:		A	Reversible
	2. Folding a paper to make a toy aeroplane:				0 - 0110
		Rolling a ball of dough	The state of the s		Reversible
					Inverensible
		Baking cake in an over	Grants Clou		Reversible
		Drying a wet cloth:	v duna:		Doneversible.
		Making biogas from con	w durig.		Dueversible
	7.	Burning of a candle:			
C.	Pah	eli mixed flour and w	rater and (i)	ma ati	de a dough, (ii) rolled the dough to on a pan, (iv) dried the chapati and Identify the changes (i) to (iv) as
	mak	ce a chapati, (iii) bak	ed the chap	der	Identify the changes (i) to (iv) as
	grin	changes that can be	reversed or	tha	
	(1)	Inneversible	(11) K	eva	ousible.
		(111) 59	SIEVERISI	ble	
			(IV)	79	reversible
		. c which chows t	hree situations	: 1.	a burning candle 2. an extinguished candle [NCERT Exemplar Problems]
).					[NCERT Exemplar Problems]
	3. 11	nelting wax.	(((2))		
		1 2			3.
		- 4	Suppl		
			db. b		
					1-21
					1-1

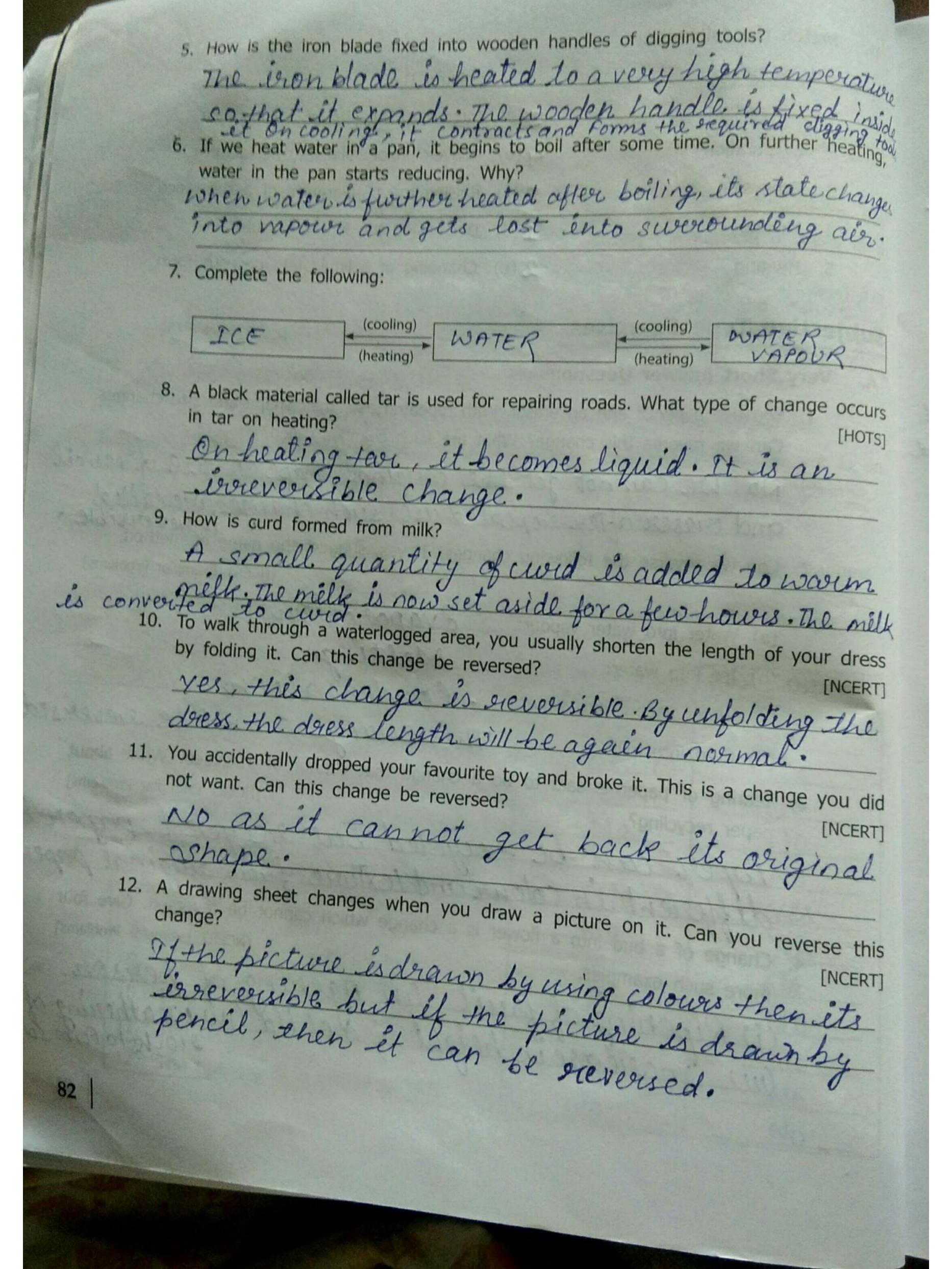
which of these shows a reversible change and why? Mich of these shows a reversible change at reversible change a reversible change a reversible change of an entirely wax gets its solid (original) form back on cooling. Could There Be Other Ways to Bring a Change? Could There Be Other Ways to Bring a Change?
There Be Other Ways to Dime
Could There Be Other Ways to be could there Be Other Ways to be considered of an angle of size or shape of an angle of size is called expansion the change larger size is called expansion of the sightly larger size or shape of
a Define the state of the pansing
1. Expansion to dightly larger in or shape of
object 710 reduction en size d'contraction.
2. Contraction cooling es care
3. Melting: The change of state of a called melting. from solid to liquid on heating is called melting. from solid to liquid on heating is called melting.
3. Melting: The A healthy is come
Partition of a second contract of the second
B. Conversion of ice into water and water into ice is an example of change which can be reversed. Give four more examples where you can say that the [NCERT Exemplar Problems]
which can be reversed.
changes can de balloon 2. Dough to man wax.
changes can be reversed. 1. Blowing of a balloon 2. Dough to make chapati 3. Folding a paper 4. Melting of wax.
*** Accignment
Integrated Assignment
Objective Type Exercises [NCERT Exemplar Problems]
Multiple Choice Questions:
1. Pick the change that can be reversed from the following:
(a) Cutting of trees (b) Melting of ghee
(c) Burning of candle (d) Blooming of flower
2. Which of the following changes cannot be reversed?
(a) Hardening of cement (b) Freezing of ice cream
(c) Opening a door (d) Melting of chocolate
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3.	An iron ring is heated. Which of the following statements about it is incorrect?
	(a) The ring expands.
	(b) The ring almost comes to the same size on cooling.
	(c) The change in this case is reversed.
	(d) The ring changes its shape and the change cannot be reversed.
4.	While lighting a candle, Paheli observed the following changes:
	(i) Wax was melting.
	(ii) Candle was burning.
	(iii) Size of the candle was reducing.
	(iv) Melted wax was getting solidified.
	Of the above, the changes that can be reversed are
	(a) (i) and (ii) (b) (ii) and (iii)
	(c) (iii) and (iv) (d) (i) and (iv)
5.	Salt can be separated from its solution (salt dissolved in water), because
	(a) mixing of salt in water is a change that can be reversed by heating and melting of salt.
	(b) mixing of salt in water is a change that cannot be reversed.
	(c) mixing of salt in water is a permanent change.
	(d) mixing of salt in water is a change that can be reversed by evaporation.
6.	Rolling of chapati and baking of chapati are the changes that
	(a) can be reversed.
	(b) cannot be reversed.
	(c) can be reversed and cannot be reversed, respectively.
	(d) cannot be reversed and can be reversed, respectively.
7.	Iron rim is made slightly smaller than the wooden wheel. The rim is usually heated before fixing into the wooden wheel because on heating, the iron rim
	(a) expands and fits onto the wooden wheel.
	(b) contracts and fits onto the wooden wheel.
	(c) no change in the size takes place.
	(d) expands first, then on cooling contracts and fits onto the wooden wheel.

- Fill in the blanks:
- 1. Changes can be compared on the basis of their pace, as Slow and fast change.
 - 2. Climbing up stairs is a ____ Fast change, while growing up is a ____ Slow change.
 - 3. Sometimes, changes can be classified as per their desirability. For example, the burning of wood in fire place is desirable while the burning of trees in a
 - 4. Many changes occur around us on their own, such as flowers and fruits of 5. Many changes are caused by us, such as cooking band from cow dung.
 - 6. The changes which can be reversed are called sevensible changes.
 - 7. The changes which cannot be reversed are called in versible changes.
 - 8. The melting of wax is different from burning of wax because the former is an example of Heversible change, while the latter is of inneversible change.
 - 9. The burning of an incense stick is inveversible change.
 - 10. Cutting of vegetable and cooking of vegetable are both Lyne versible changes.
- Some changes have been given in the table. State whether the change can be reversed or not. Also, write the name of substance formed.

, substance formed.				
Can be reversed (Yes/No)	New substance formed			
Yes	No			
- NO	Yes			
	NO			
	NO			
	No			
	Yes			
	Yes			
Yes	NO			
NO	No			
Yes				
-NO	014			
	- NO			
	Yes No Yes No No No No Yes No			

Match the following: Column II Column I 3 (a) Increasing the size of a substance 1. Contraction 4 (b) Conversion of solid into liquid form 2. Evaporation 5 (c) Raising the temperature of a substance 3. Expansion Decreasing the size of a substance 4. Melting 2 (e) Changing of a liquid into gaseous form 5. Heating Subjective Type Exercises A. Very Short Answer Questions 1. You use a pencil and an eraser. With repeated use, their shape and size changes. Can we reverse this change? What are such changes called? no. We can not get the original shape or, size of pencil and evaser after repeated use. Such changes are called isvieversible. 2. Can we reverse the following changes? If yes, suggest the name of method. [NCERT Exemplar Problems] Evaporation (a) Water into water vapour: Melting (b) Ice into water: (c) Water vapour into water: Thes change cannot be reversed (d) Curd into milk: 3. Tearing of paper is said to be a change that cannot be reversed. What about Paper can be recycled but recycled paper is different en colour and texture from original paper. 4. Change of a bud into a flower is a change which cannot be reversed. Give four [NCERT Exemplar Problems] more such examples. (i) Ripening of fruit (11) Agening of person (11) Encuease in height of a child (1V) weathering of 210 Cksto Form Soil



13. A thick coating of a paste of Plaster of Paris (POP) is applied over the bandage on a fractured bone. It becomes hard on drying to keep the fractured bone immobilised. Can the change in POP be reversed? No, the changes in pop will not neversed as pop on mixing with water becomes hard. It is an irreversible change. Short Answer Questions

1. A balloon is inflated by blowing air. How will you reverse this change? If an inflated balloon is pricked with a pin, will you be able to reverse this change? Explain.

The change can be seversed by seleasing the opening of the balloon so that all the air escapes out. However if the balloon is pricked with a pin, it will broust such a balloon can not be 'enflated again. Thus it is an irreversible change

2. Cite the difference between the following changes:

(a) Making a toy boat by folding paper and

(b) cutting out a boat from paper.

ex when a perper is folded tomake a boat we can unfold the boat to get back original paper sheet. b) By cutting out a paper, we cannot evere this as it does not get back its original form.

3. Give examples to explain the difference between changes that can or cannot be [NCERT]

changes that can be evered:

changes that can not be reversed:

· Hardening of cement · Flower blossom

4. Observe the following diagrams and explain each stage. At what stage can we obtain the lump of clay back?





A potter working on his wheel shaped a lump of clay into a pot. He then baked the pot in an oven. Do these two acts lead to the same kind of changes or different? Give your opinion and justify your answer. [NCERT Exemplar Problems] In first stage, the lump of clay is moulded to form a pot on a potter's wheel In second stage the clay pot is baked to formane withen pot. Hence the Lump of clay can be retrieved after first stage.

5. How is it possible to fit the metal rim over a cart wheel tightly? Explain.

The metal riem is made slightly smaller than the wooden wheel. On heating, the rum expand and fits on to the wheel- Cold water is then pour tightly onto the wheel. contracting the size of rein and fits

6. A piece of iron is heated till it becomes red-hot. It then becomes soft and is * beaten to a desired shape. What kind of changes are observed in this processreversible or irreversible? [NCERT Exemplar Problems]

How does a blacksmith change a piece of iron into different tools? What type of

A blacksmith heats the piece of iron till it becomes seed hot. It then becomes soft and is boten entoadeired shape on looling il come in original form So, new substance is formed enthis case. It is reversible changes.

7. An incense stick is burnt. What are the changes that take place in it? Are these changes similar to changes that occur on burning a matchstick?

when an incense stick is burnt, it changes to form some gases and gets converted ento solid agles. This is similar * New substance of Matchstick.

* Both charges are lirrer ersible.

8. Do the changes occur when two substances are mixed together? Give two examples of such changes begether. The changes occur when two substances are mitted logether. * Reversible: when salt is added to water * Freversible: when lime juice is added to milk. 9. Boojho's sister broke a white dove, a symbol of peace, made of Plaster of Paris (POP). Boojho tried to reconstruct the toy by making a powder of the broken pieces and then making a paste by mixing water. Will he be successful in his [NCERT Exemplar Problems] effort? Justify your answer. No because after mixing water ente powder it becomes hard on drying and this the same POP as Et was before. 10. Paheli had bought a new bottle of pickle from the market. She tried to open the metal cap to taste it but could not do so. She then took a bowl of hot water and immersed the upper end of the bottle in it for five minutes. She could easily open the bottle now. Can you give the reason for this? [NCERT Exemplar Problems] The matal lid of the Bickle bottle expand--ed due to heat and became loose. Then the bottle could be easily opened. 11. A bag of cement lying in the open gets wet due to rain during the night. The next day the sun shines brightly. Do you think the changes, which have occurred in the cement, could be reversed? No the changes could not be surveyed because, scainwater makes the cement

wet and the warmth of the sur makes it

hard so this change can not be reveresed.

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