

QUESTIONNAIRE TO PICTOGRAM

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'PICTOGRAMS AND FLOWCHARTS' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

http://www.technologystudent.com/mobapps/pictograms_and_flowcharts1.pdf

Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research / complete answers to all the questions.

**ARE YOU READY?
USE THE MOBILE App!!**

1

WHAT IS A QUESTIONNAIRE?

Include reference to how they can be used.

2

WHAT IS A PICTOGRAM?

Include reference to how they can be used.

3

THE TABLE OF RESULTS SHOWN OPPOSITE, IS A SUMMARY OF A SURVEY ON ALARM SYSTEMS.

100 PEOPLE WERE ASKED, "WHICH TYPE OF ALARM ARE YOU IN MOST NEED OF ?"

BICYCLE, BRIEF CASE, DOOR, PERSONAL, CAR, ANTI PICK-POCKET OR WINDOW.

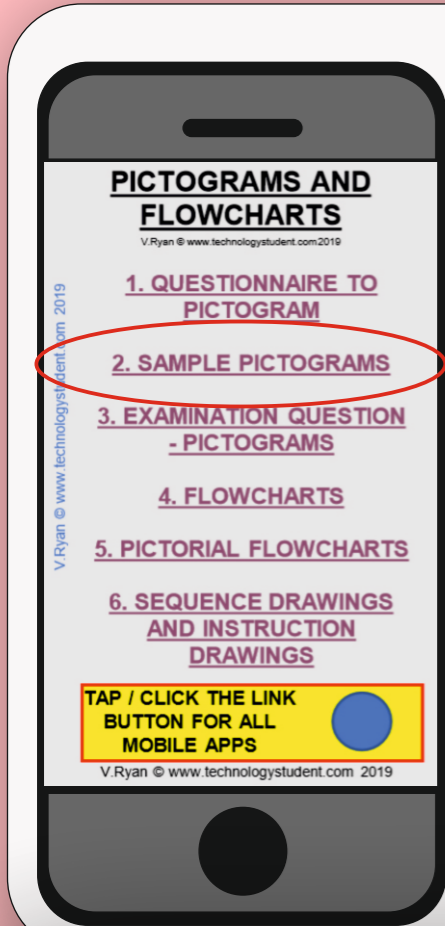
CONVERT THE TABLE OF RESULTS INTO A PICTOGRAM. YOUR PICTOGRAM SHOULD BE COMPOSED OF IMAGES, THAT RELATE TO THE TERM 'ALARM'.

TABLE OF RESULTS

ALARM TYPE	No OF PEOPLE
BICYCLE	15
BRIEF CASE	20
DOOR	24
PERSONAL ALARM	5
CAR	7
PICK-POCKET	10
WINDOW	29
TOTAL	100

YOUR PICTOGRAM

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THE PICTOGRAM SHOWN OPPOSITE, IS THE RESULT OF A SURVEY, AIMED AT DETERMINING POPULAR COLOURS. THIS IS HELPFUL INFORMATION FOR DESIGNERS.

YOU ARE TO PRESENT THE SAME NUMBERS / FIGURES, BUT USING DIFFERENT IMAGES (NOT THE PAINT BRUSHES).

THE IMAGE(S) YOU USE, MUST STILL BE LINKED TO 'COLOURS'.

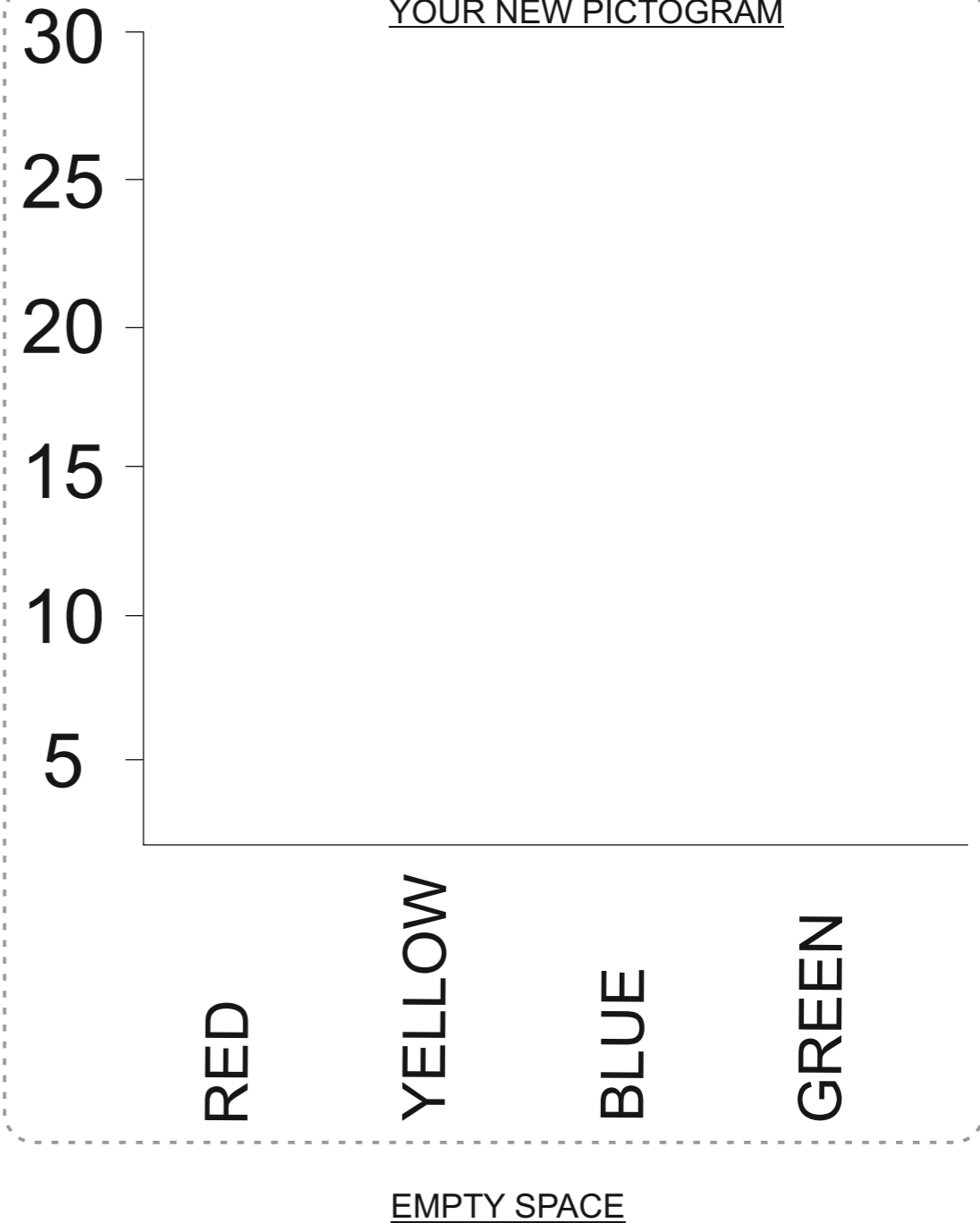
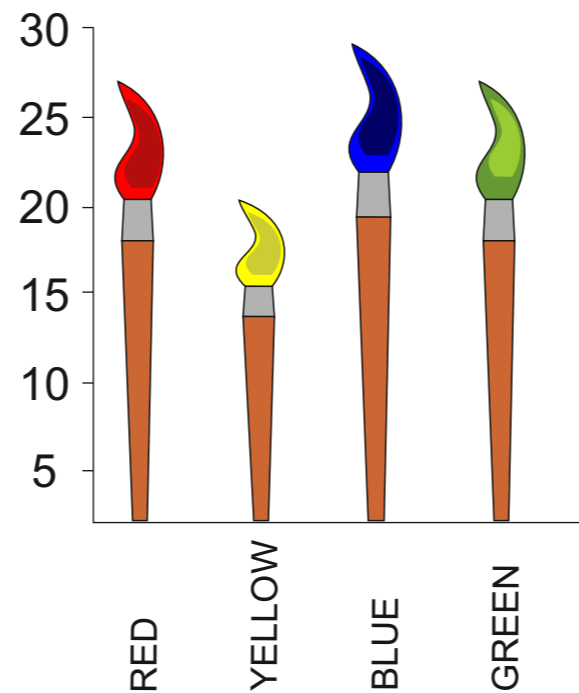
A: SKETCH / DRAW IMAGES IN THE EMPTY SPACE, THAT YOU COULD USE AS REPLACEMENT IMAGES, FOR THE PICTOGRAM.

B: SELECT YOUR BEST IMAGE, AND DRAW THE NEW PICTOGRAM, USING THE BLANK AXIS (top right corner).

EMPTY SPACE

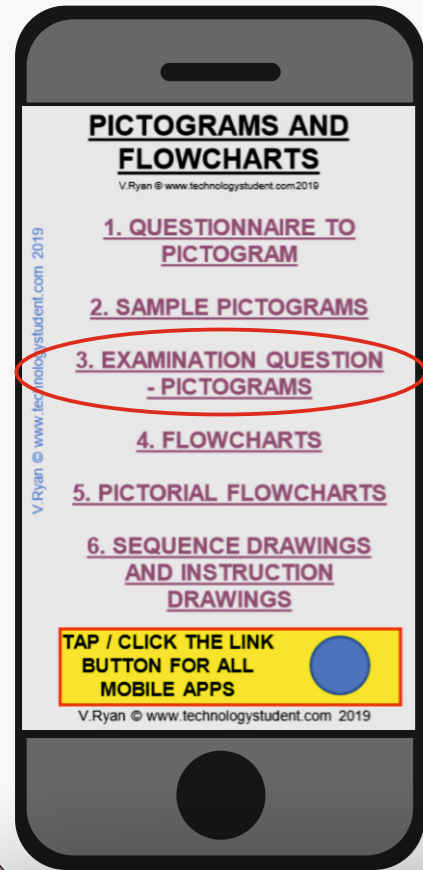
YOUR NEW PICTOGRAM

POPULAR COLOURS



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EXAMINATION QUESTIONS



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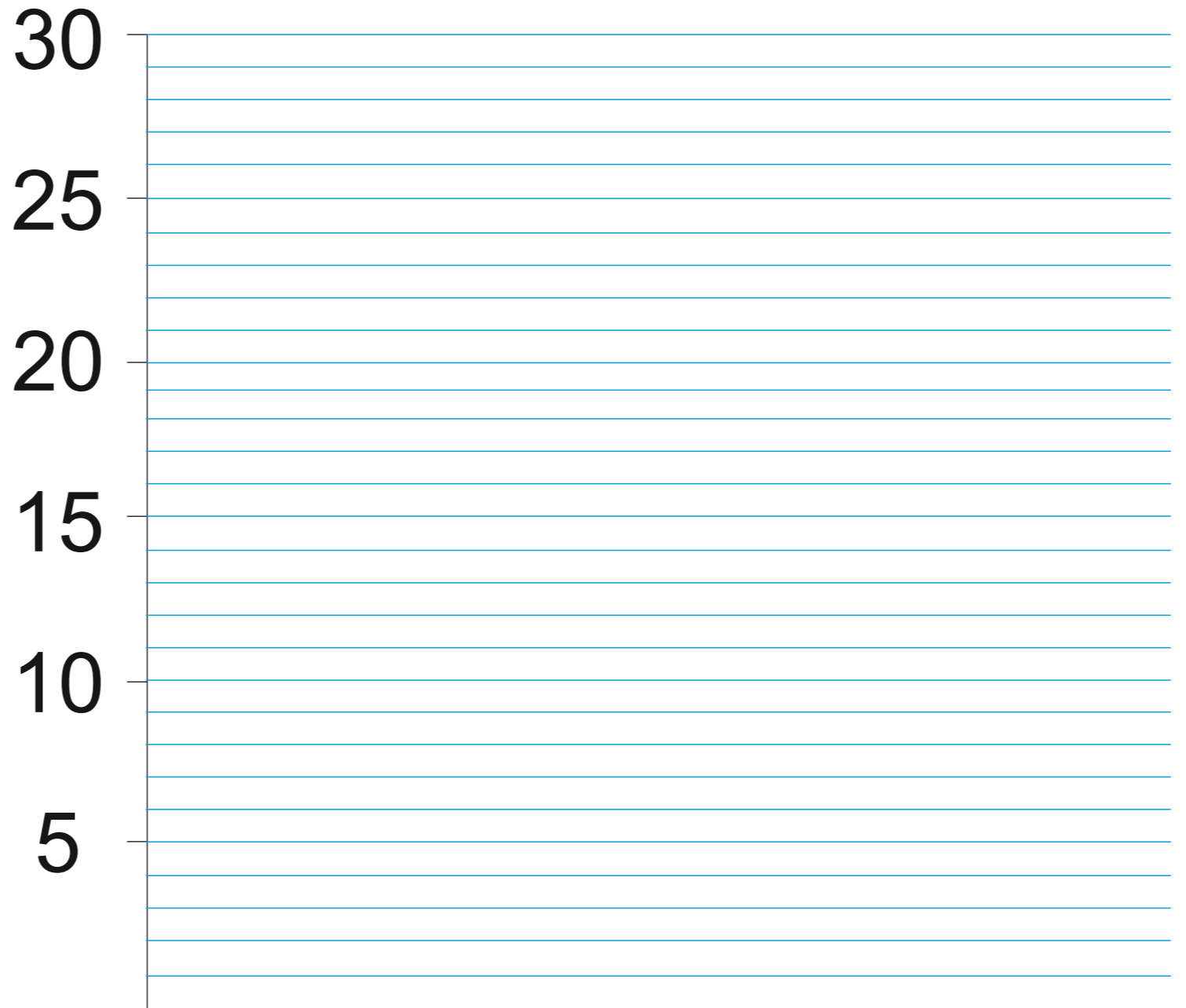
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1

A NUMBER OF FOOD PACKAGING MANUFACTURERS WERE ASKED, WHICH MATERIAL THEY USED IN THEIR PRODUCTS. THE RESULTS ARE SEEN IN THE TABLE BELOW.

NUMBER	MATERIAL
30	QUALITY CARD
25	POLYPROPYLENE
15	POLYSTYRENE
20	BIODEGRADABLE CARD
10	METALISED / ALUMINUM FOIL

USING THE BLANK 'GRAPH', PRESENT THE TABLE OF RESULTS, AS A PICTOGRAM.



HELPFUL LINK: http://www.technologystudent.com/mobapps/pictograms_and_flowcharts1.pdf

EXAMINATION QUESTIONS

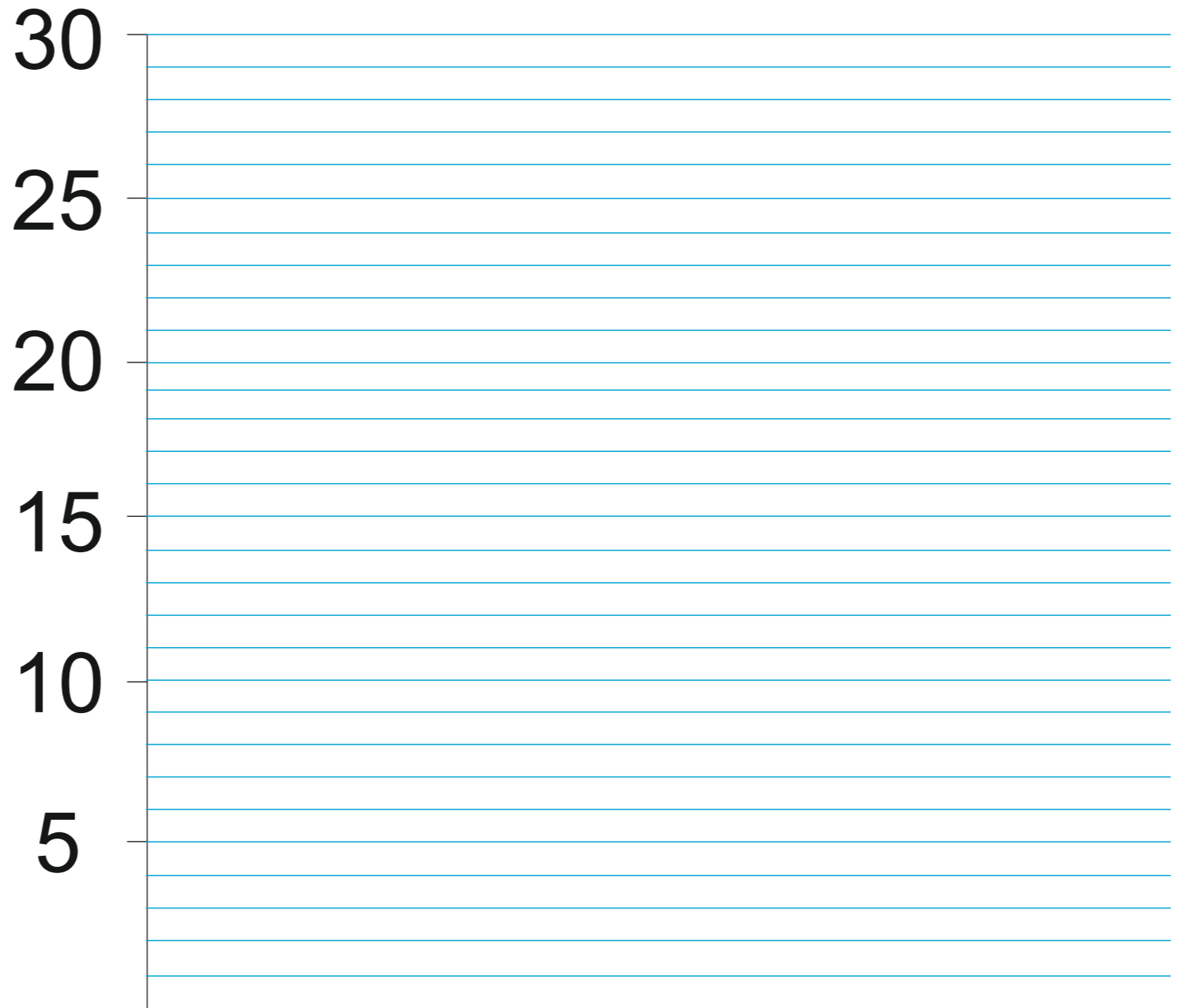
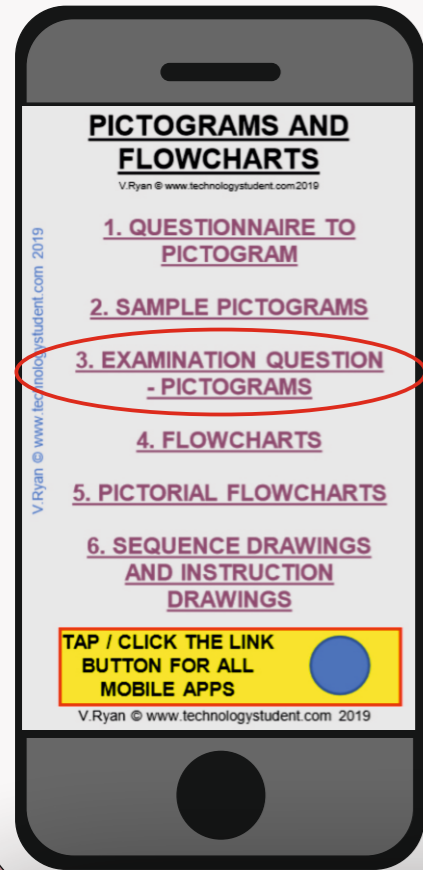
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1 CONVERT THE TABLE BELOW TO A PICTOGRAM. THE TABLE SHOWS THE RESULTS OF A SURVEY ON POPULAR TV PROGRAMMES.

TV PROGRAMMES

FAVOURITE TV PROGRAMME	NUMBER OF PEOPLE
SOAP	20
NEWS	10
DOCUMENTARY	18
MUSIC	22

HELPFUL LINK: http://www.technologystudent.com/mobapps/pictograms_and_flowcharts1.pdf

EXAMINATION QUESTIONS

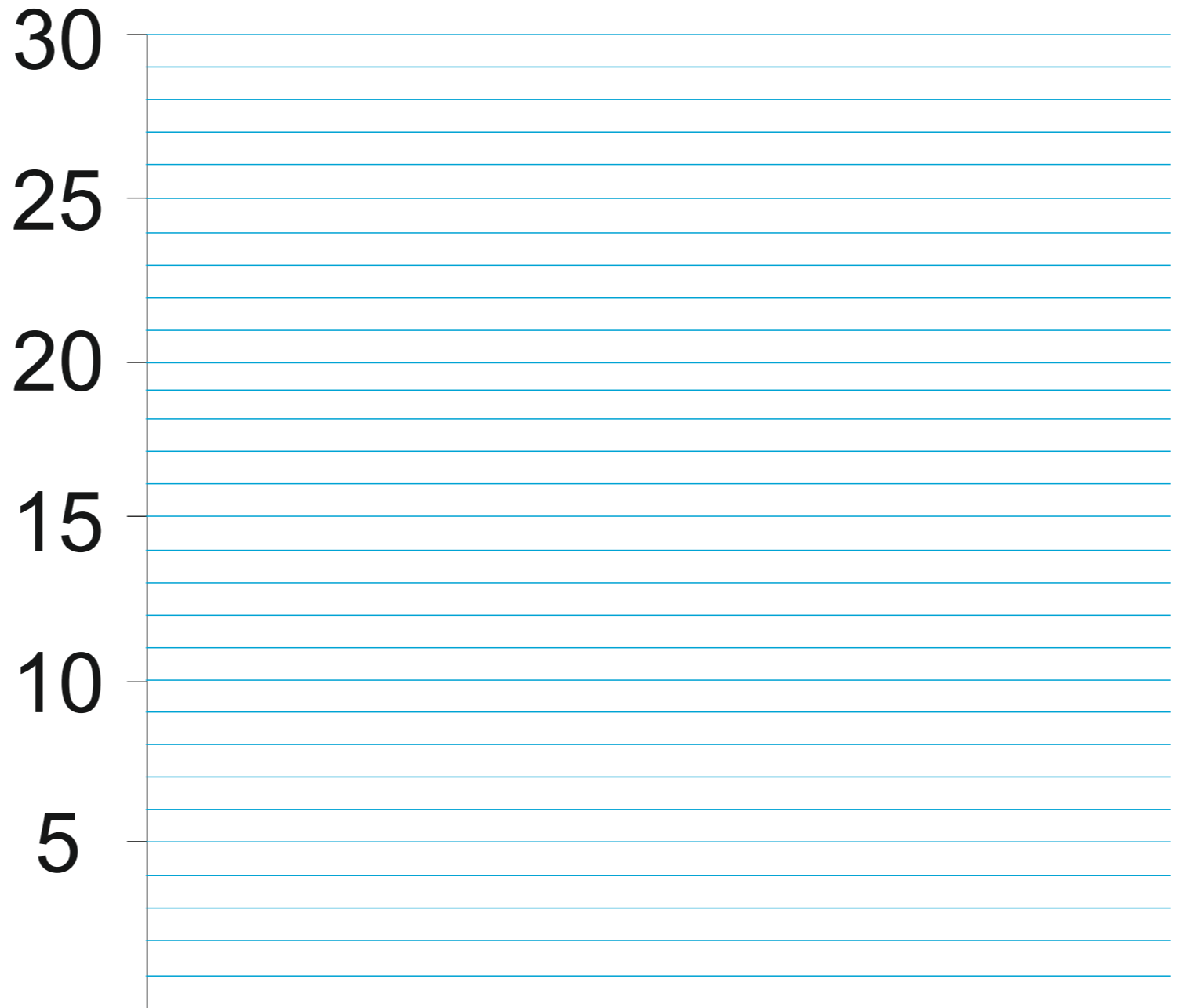
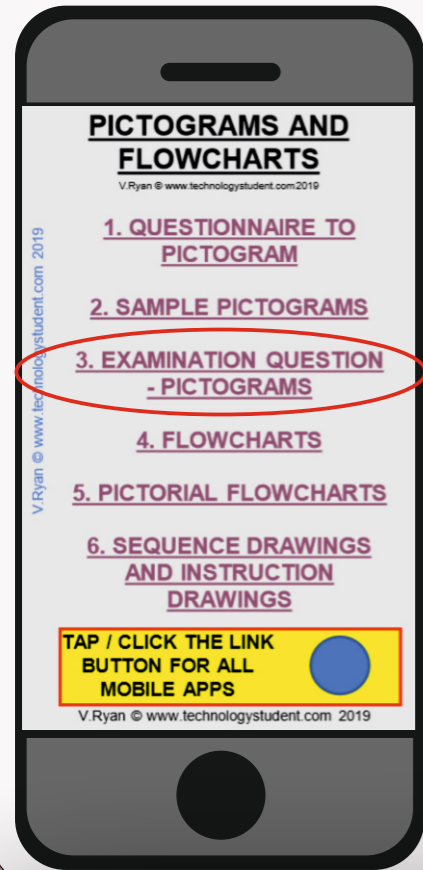
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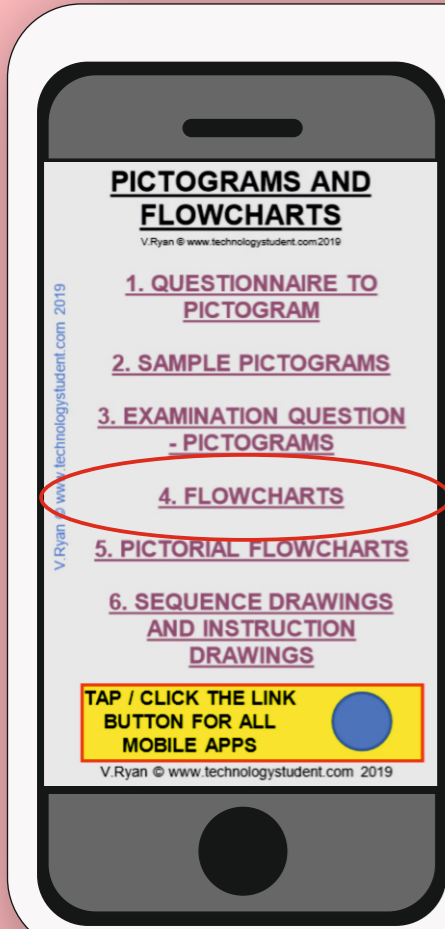


1 CONVERT THE TABLE BELOW TO A PICTOGRAM. THE TABLE SHOWS THE RESULTS OF A SURVEY ON POPULAR DRINKS.

DRINKS

FAVOURITE DRINK	NUMBER OF PEOPLE
TEA	12
COFFEE	15
SOFT	25
WATER	17

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FLOWCHARTS

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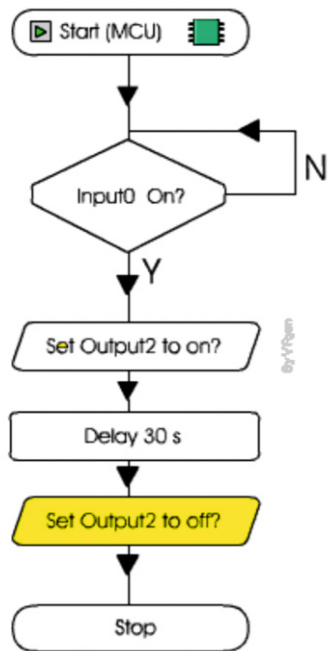
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**ARE YOU READY?
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1 WHAT ARE FLOWCHARTS AND HOW USEFUL ARE THEY?

2 HOW CAN A FLOWCHART BE USED IN A SCHOOL WORKSHOP, WHEN MAKING A PRODUCT?

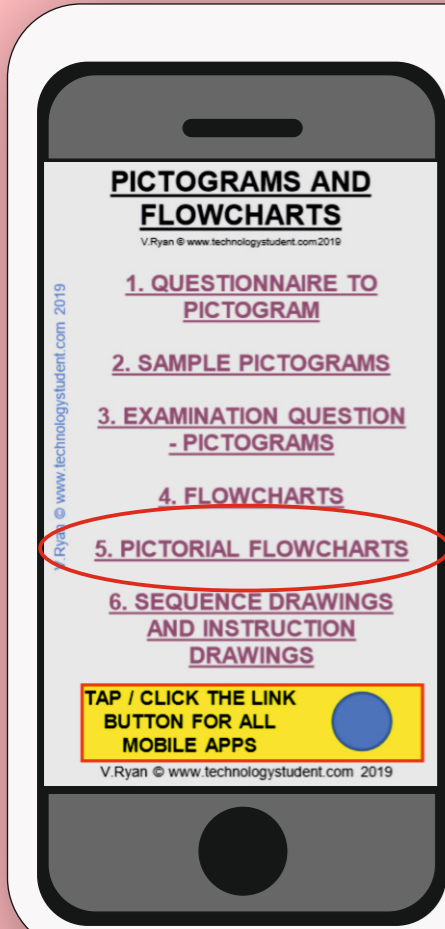
3 IN ELECTRONICS, CIRCUIT DESIGNERS USE FLOWCHARTS. AN EXAMPLE IS SHOWN BELOW.



IN THE NEXT BOX, EXPLAIN HOW CIRCUIT DESIGNERS USE FLOWCHARTS, WHEN WORKING WITH PROGRAMMABLE CIRCUITS.

4 COMPUTER INTEGRATED MANUFACTURE (CIM) RELIES ON CAREFUL PROGRAMMING AND FLOW CHARTS. WHAT IS COMPUTER INTEGRATED MANUFACTURING?

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PICTORIAL FLOWCHARTS

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2

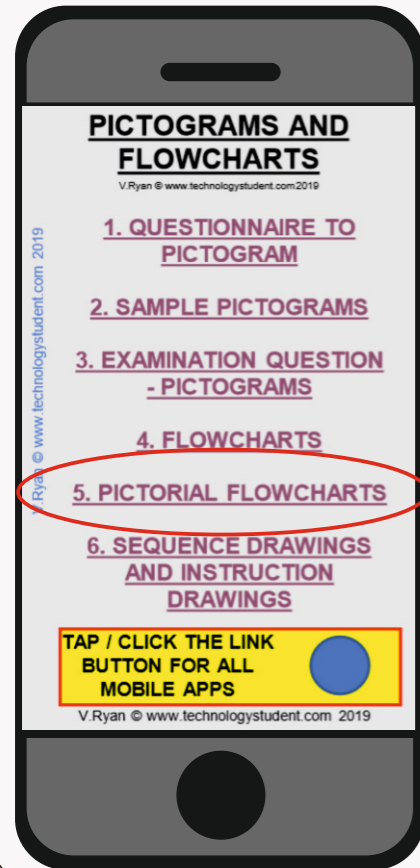
DRAW A PICTORIAL FLOWCHART, REPRESENTING THE LIFE CYCLE OF A CAR

★ USE THE APP TO HELP ANSWER THIS QUESTION ★

1

WHAT IS A PICTORIAL FLOWCHART?

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PICTORIAL FLOWCHARTS

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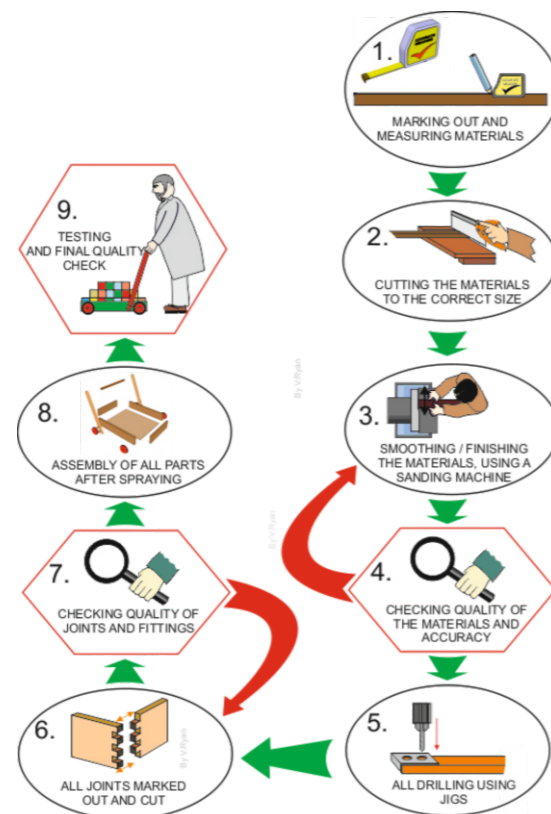
1

For a project you have manufactured or plan to manufacture, draw a pictorial flowchart, which outlines the main stages. Include quality control checks.

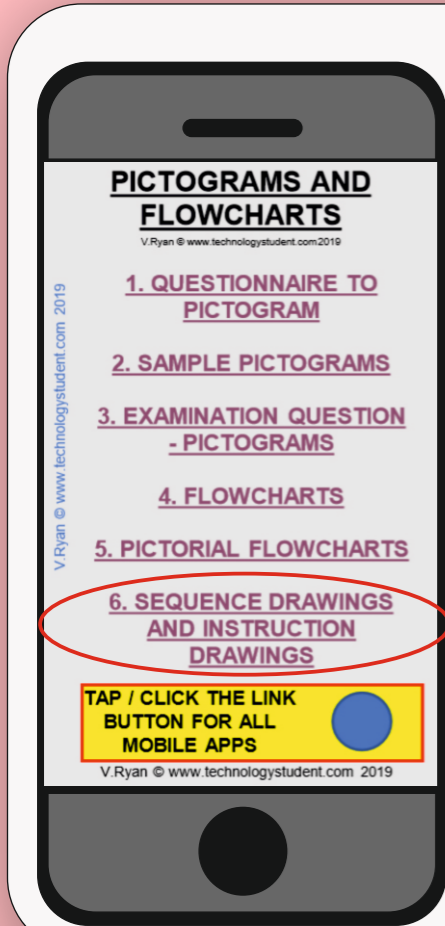
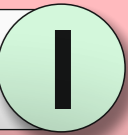
Add colour, shade and simple detail. Add labels identifying each stage.

★ USE THE APP TO HELP ANSWER THIS QUESTION ★

SAMPLE PICTORIAL FLOWCHART



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SEQUENCE DRAWINGS

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2

IN THE SPACE BELOW, CREATE A SEQUENCE DRAWING, THAT SHOWS THE MAIN STAGES OF MANUFACTURING A PRODUCT, YOU HAVE COMPLETED IN A SCHOOL WORKSHOP.

1

WHAT IS A SEQUENCE DRAWING?

HELPFUL LINK: http://www.technologystudent.com/mobapps/pictograms_and_flowcharts1.pdf

INSTRUCTION DRAWINGS

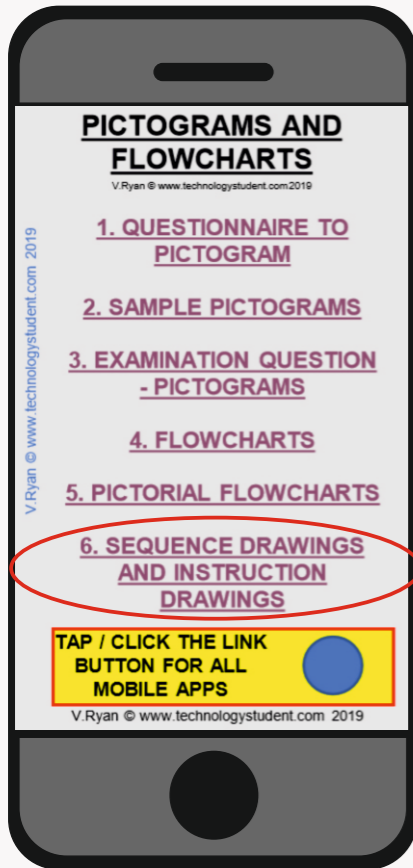
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PNEUMATIC ROCKET MANUFACTURE

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1. CUT 3 SHORT PIECES OF SELLOTAPE AND STICK THEM ON THE EDGE OF THE BENCH.
STICK THE ROLL ON THE EDGE AS WELL.
2. ROLL A PIECE OF A4 BLANK PAPER TIGHTLY ROUND THE PLASTIC TUBE. THE PLASTIC TUBE CAN BE HELD IN A VICE.
HOLD IN VICE HERE
3. KEEP THE 'PAPER' TUBE ON THE PLASTIC TUBE. STICK 3 PIECES OF SELLOTAPE IN PLACE, TO HOLD THE 'PAPER' TUBE TOGETHER.
4. RUN ONE LENGTH OF SELLOTAPE ALONG / DOWN THE SEAM AND CUT TO SIZE.
5. FILE / SAND THE SQUARE SECTION STYROFOAM, SO THAT IT IS ROUND. USE GLASS PAPER TO DO THIS. KEEP THE GLASS PAPER FLAT ON THE BENCH STOP (SEE BELOW).
KEEP CHECKING THAT THE STYROFOAM FITS INTO THE PAPER TUBE, AS YOU 'ROUND' IT.
6. USE A HAND FILE AND GLASS PAPER TO PRODUCE A 'TIP' RATHER LIKE A NOSE CONE.
7. SELLOTAPE THE NOSE CONE TO THE PAPER ROLL.
8. MAKE THREE CARD FINS. THESE WILL STABILISE THE ROCKET AS IT FLIES THROUGH THE AIR. USE PVA GLUE TO STICK THE FINS IN POSITION.
THE CENTRE 'TAB' IS FOLDED THE OPPOSITE WAY.
9. ADD DECORATION AND MARKINGS.

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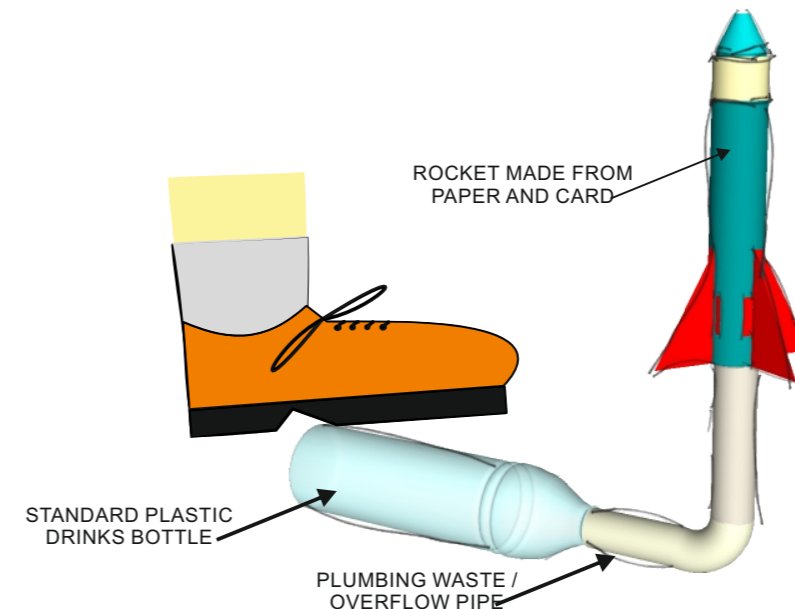
INSTRUCTION DRAWINGS

USING THE APP AND / OR THE INSTRUCTION DRAWING OPPOSITE:

MAKE A PNEUMATIC ROCKET.

TEST THE ROCKET.

PLEASE NOTE - YOU MAY NEED TO BE CREATIVE, SUBSTITUTING SOME OF THE MATERIALS, DEPENDING ON THE MATERIALS YOU CAN ACCESS AT HOME OR IN CLASS.



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