Name:_____ **Date:**_____

LAB: EXAMINING TEMPERATURE CHANGE

*Five stations will be set up as follows:

- **BLACK VS. SHINY**
- **SAND VS. WATER**
- **COVERED VS. UNCOVERED**
- **HIGH ANGLE VS. LOW ANGLE**
- **CONDUCTION – HOT / COLD WATER**

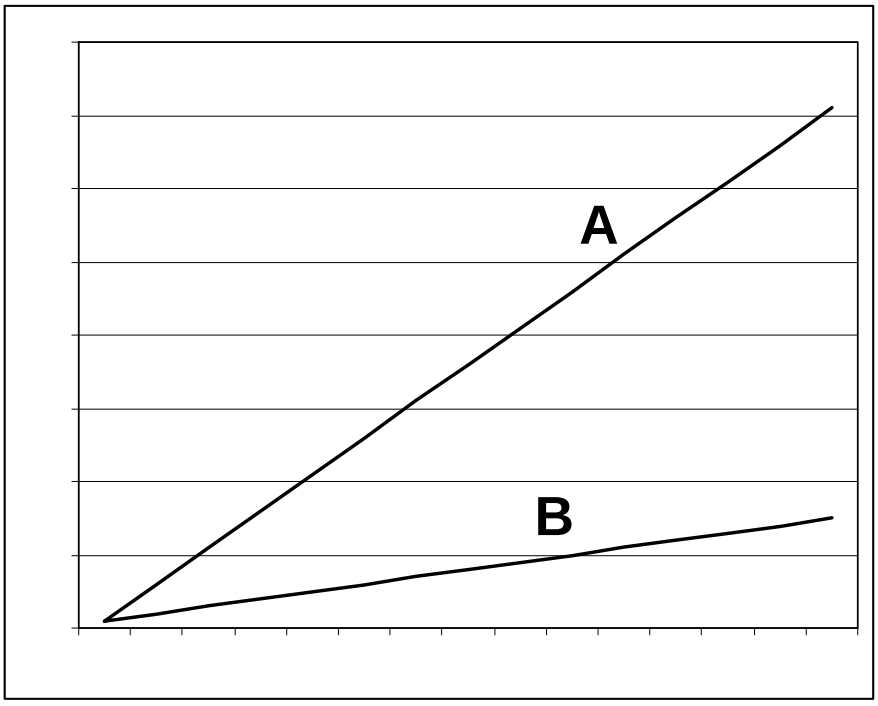
*At each station, temperatures (°C) will be recorded, each minute for twenty minutes.

*Each group will be responsible for recording the data for ONE station only.

*Once all of the station data has been recorded, the different groups will share their data ***so that each group has all of the data for each of the five stations***.

*Create five line graphs, one for each station. For each graph, include a graph title (the station name). Number the temperatures (y-axis) using the data that was recorded. ***Each graph may use a different scale, depending upon the range of the temperatures gathered. Maximize the vertical space used!***

*NOTE: On a graph, if the line is steep, the change is rapid. In the graph below, "A" is heating up faster than "B."



BLACK VS. SHINY

	MIN.	BLACK (°C)	SHINY (°C)		MIN.	BLACK (°C)	SHINY (°C)
LIGHT ON	1			LIGHT OFF	11		
	2				12		
	3				13		
	4				14		
	5				15		
	6				16		
	7				17		
	8				18		
	9				19		
	10				20		

SAND VS. WATER

	MIN.	SAND (°C)	WATER (°C)		MIN.	SAND (°C)	WATER (°C)
LIGHT ON	1			LIGHT OFF	11		
	2				12		
	3				13		
	4				14		
	5				15		
	6				16		
	7				17		
	8				18		
	9				19		
	10				20		

COVERED VS. UNCOVERED

MIN.	COVERED (°C)	UNCOVERED (°C)	MIN.	COVERED (°C)	UNCOVERED (°C)
1			11		
2			12		
3			13		
4			14		
5			15		
6			16		
7			17		
8			18		
9			19		
10			20		

by Charles Burrows

HIGH ANGLE VS. LOW ANGLE

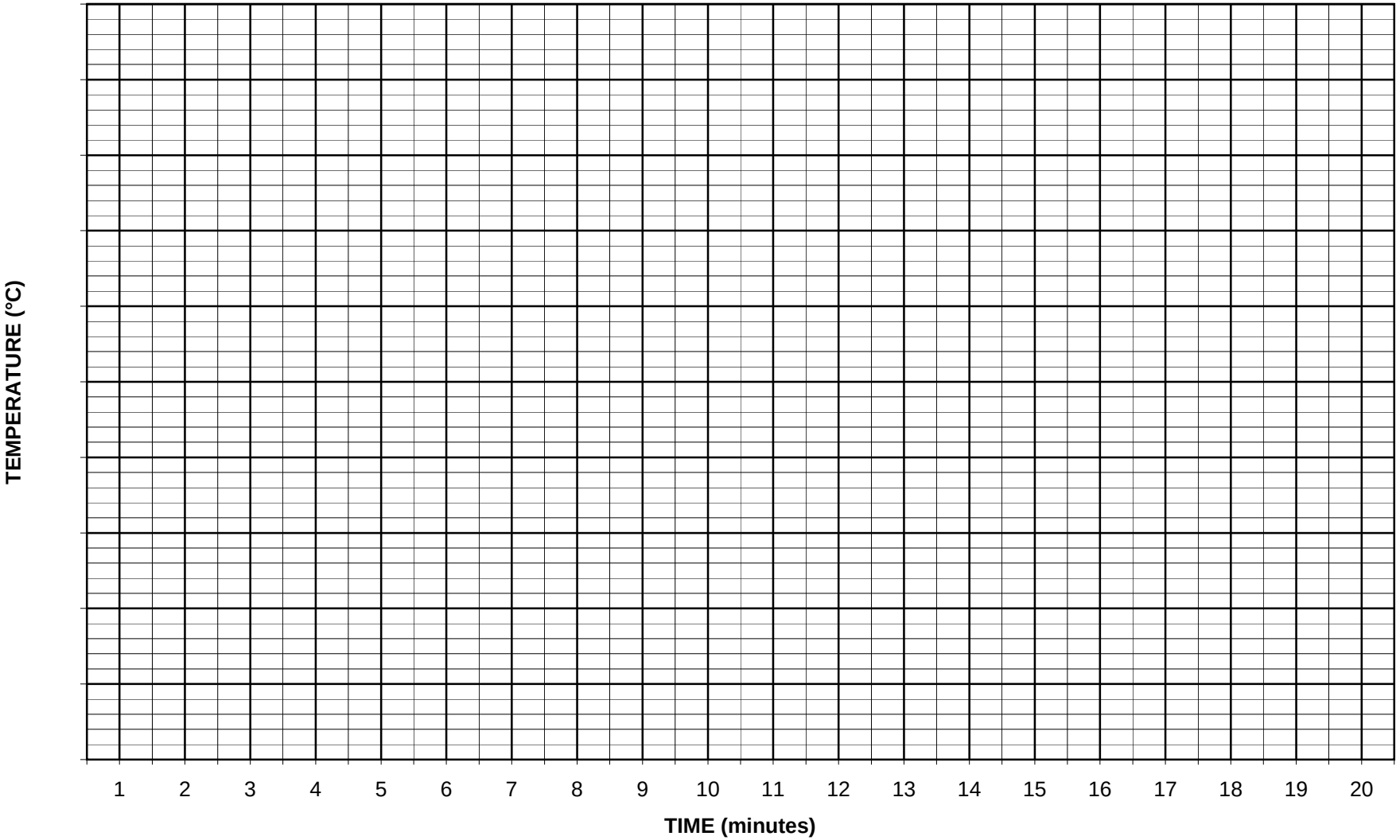
MIN.	HIGH (°C)	LOW (°C)	MIN.	HIGH (°C)	LOW (°C)
1			11		
2			12		
3			13		
4			14		
5			15		
6			16		
7			17		
8			18		
9			19		
10			20		

CONDUCTION - HOT / COLD WATER

MIN.	HOT (°C)	COLD (°C)	MIN.	HOT (°C)	COLD (°C)
1			11		
2			12		
3			13		
4			14		
5			15		
6			16		
7			17		
8			18		
9			19		
10			20		

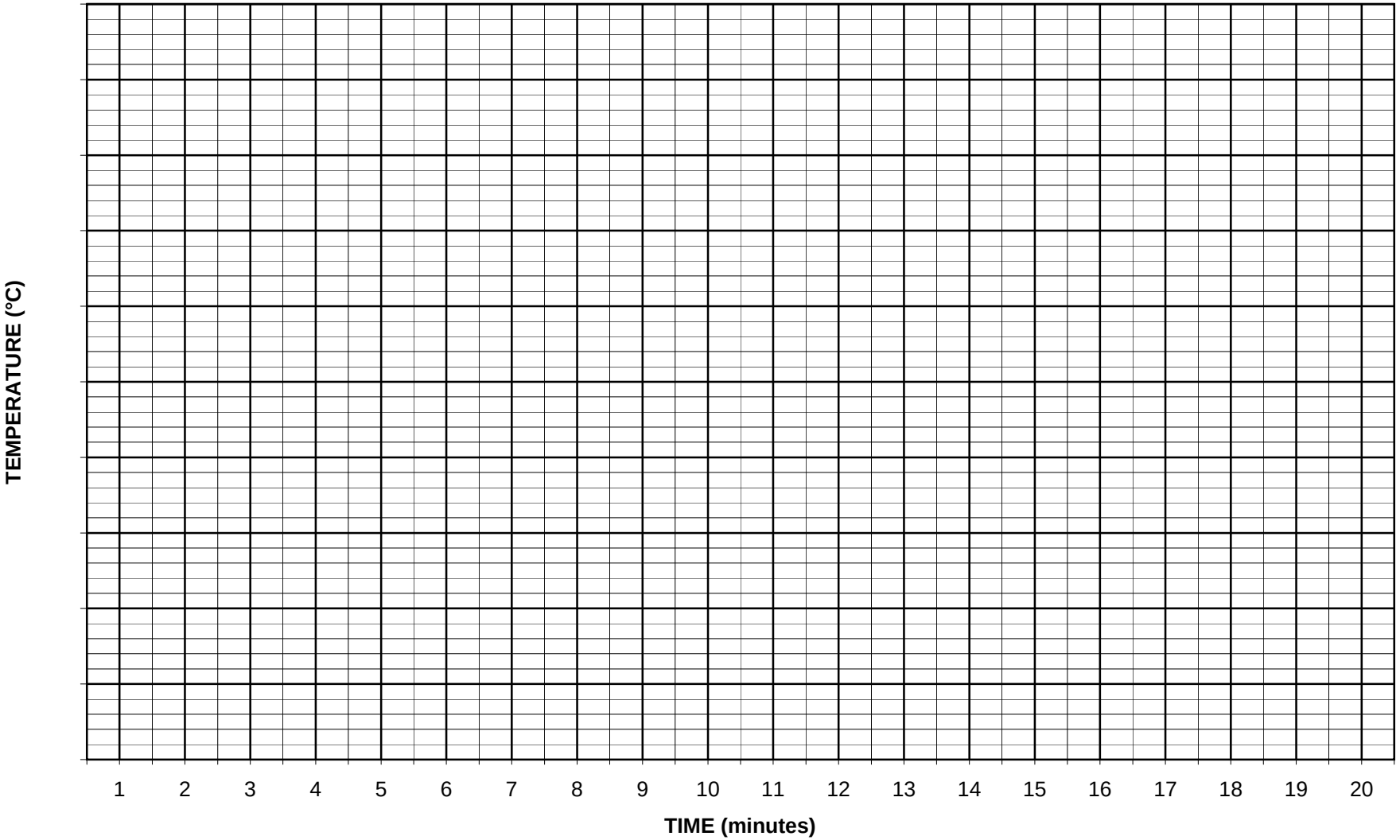
by Charles Burrows

_____



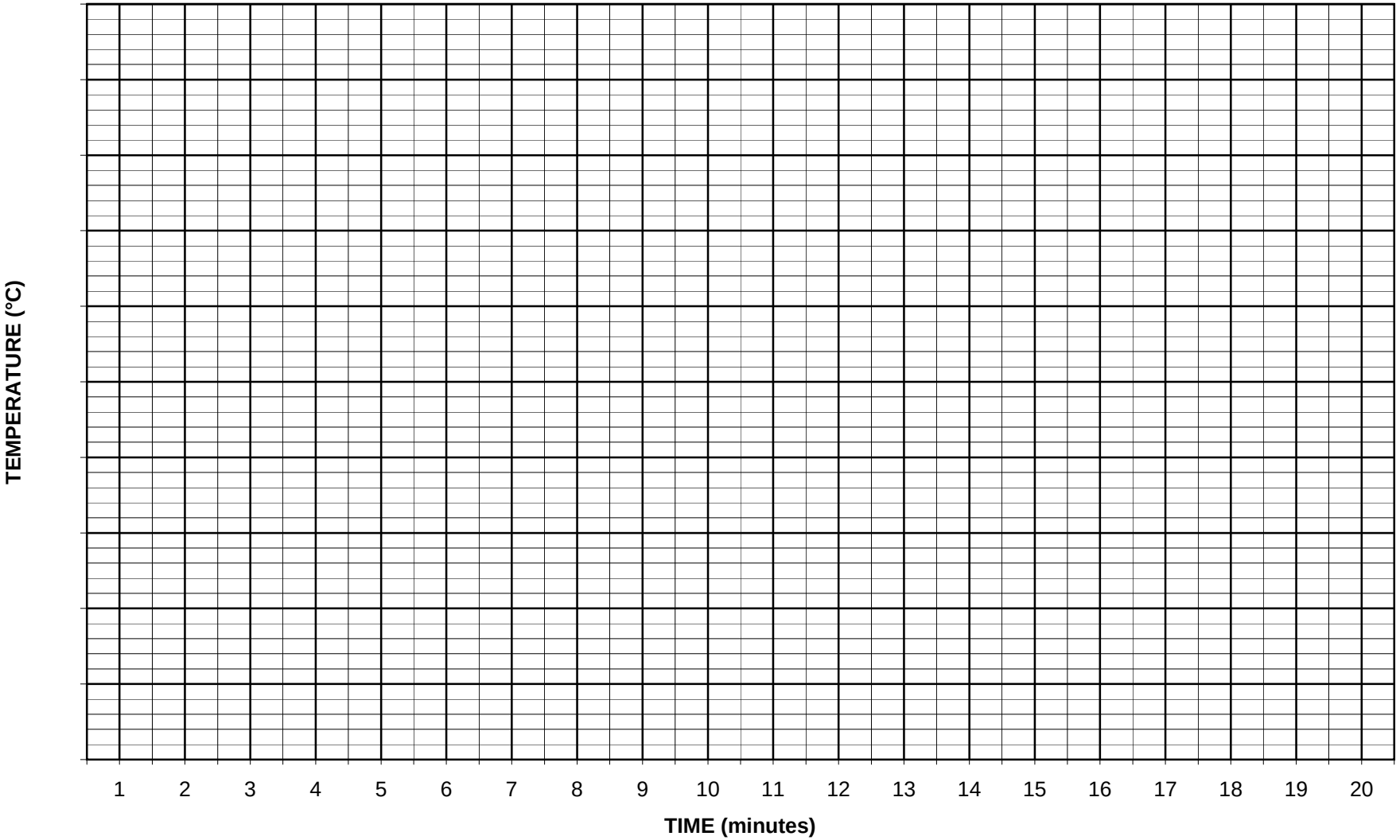
by Charles Burrows

_____



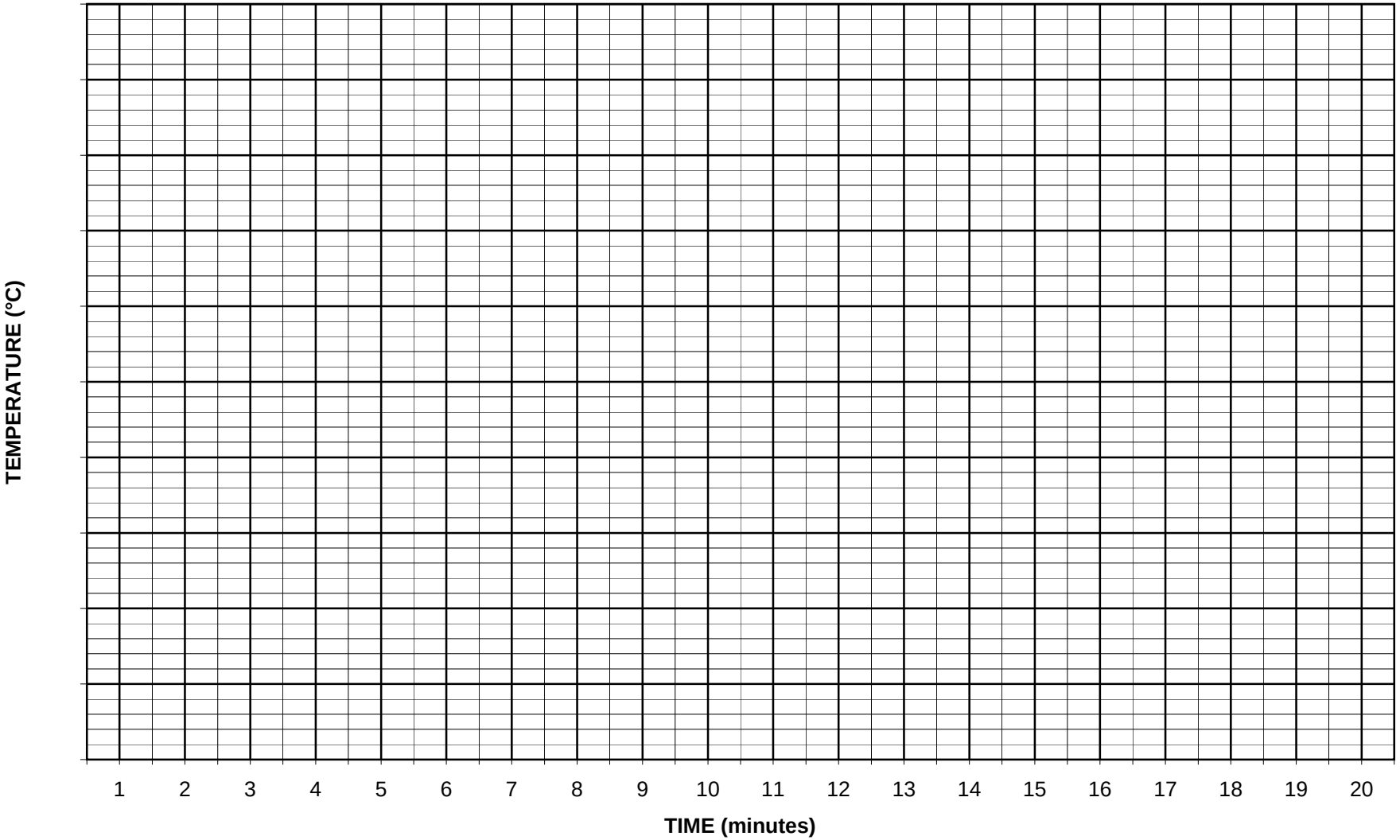
by Charles Burrows

_____



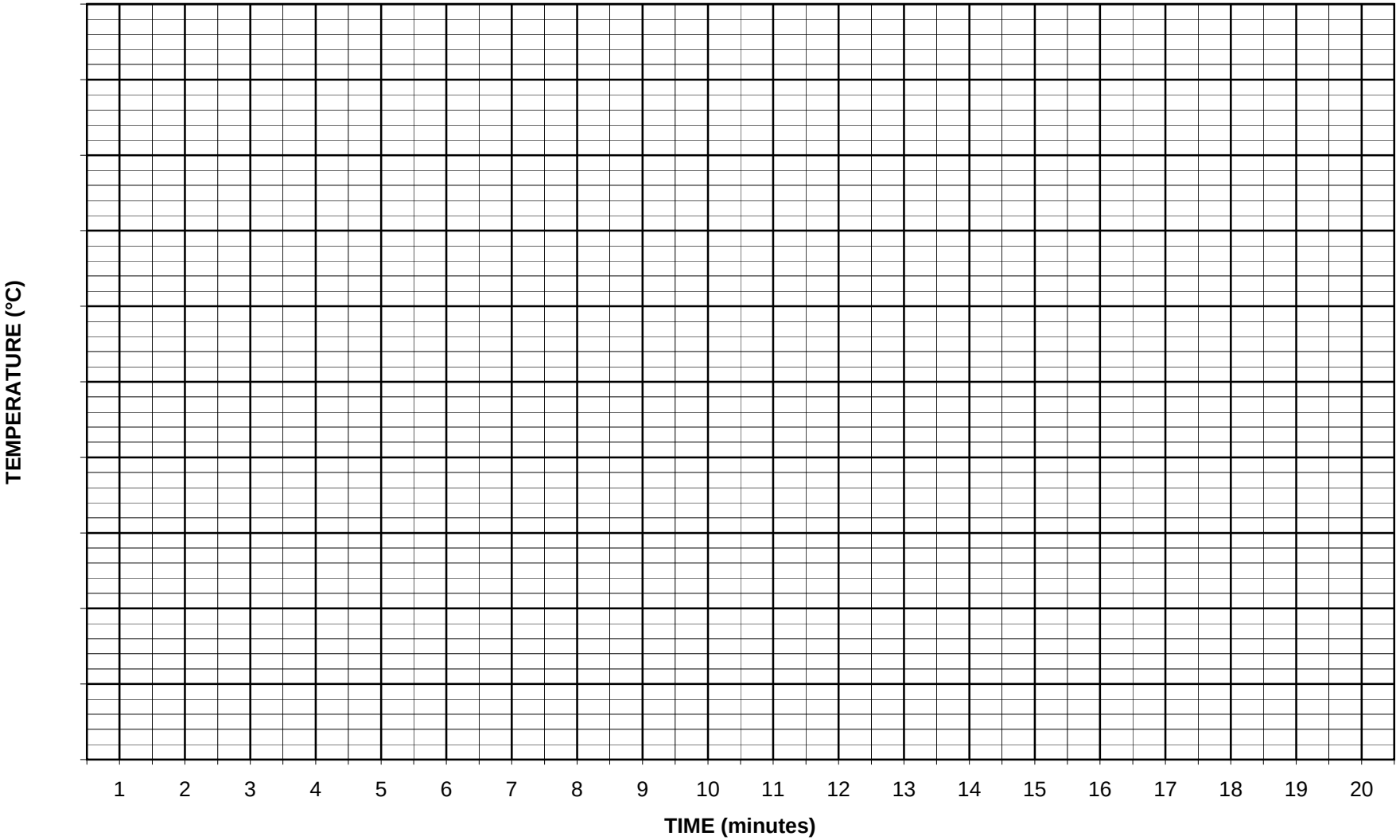
by Charles Burrows

_____



by Charles Burrows

_____



by Charles Burrows

STATION:_____

WHAT I EXPECTED TO OBSERVE	WHAT I ACTUALLY OBSERVED	EXPLANATION

STATION:_____

WHAT I EXPECTED TO OBSERVE	WHAT I ACTUALLY OBSERVED	EXPLANATION

by Charles Burrows

STATION:_____

WHAT I EXPECTED TO OBSERVE	WHAT I ACTUALLY OBSERVED	EXPLANATION

STATION:_____

WHAT I EXPECTED TO OBSERVE	WHAT I ACTUALLY OBSERVED	EXPLANATION

by Charles Burrows

STATION:_____

WHAT I EXPECTED TO OBSERVE	WHAT I ACTUALLY OBSERVED	EXPLANATION