

Instructions

In this worksheet, you will complete tasks related to Math and Science using the game Minecraft as a context. Follow the instructions and fill in the answers in the spaces provided.

Math Section

1. TNT Blast Radius Calculation

Through your exploration of different types of TNT in Minecraft, you discover their respective blast radii. Complete the table below:

| TNT Type    | Blast Radius (in blocks) |
|-------------|--------------------------|
| Regular TNT | <input type="text"/>     |
| Power TNT   | <input type="text"/>     |
| Primed TNT  | <input type="text"/>     |

2. Blast Areas

Using the blast radius, calculate the area affected by each type of TNT. Use the formula for the area of a circle:  $A = \pi r^2$  (where  $r$  is the radius).

Area of Regular TNT:

Area of Power TNT:

Area of Primed TNT:

Science Section

3. Effects of TNT Types

Identify the different effects for each type of TNT in the space below. What happens when you use each type? Fill in the details.

| TNT Type    | Effects              |
|-------------|----------------------|
| Regular TNT | <input type="text"/> |
| Power TNT   | <input type="text"/> |
| Primed TNT  | <input type="text"/> |

4. Safety Precautions

Explain 2 safety precautions to take when using TNT in Minecraft:

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Remember to hand in your completed worksheet at the end of the class!