MYTEK LAB

technology • education • knowledge

CERTIFICATE OF ACHIEVEMENT

LEARNING KIT COMPLETION

This certifies that

Your Name

SAMPLE

has completed every step of the learning kit

Bore a tunnel under the city

Engineering and technology

Stephen Souders

MYTEK LAB

MYTEK LAB

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LEARNING KIT

2026

November 28, 2026

DATE COMPLETED

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STEPS COMPLETED

Certificate SAMPLE

LEARNER

Your Name

SUBJECT

Engineering and technology

Each step below was done with the kit **Bore a tunnel under the city**, finished November 28, 2026.

- ✓ Step 1: The first ring
- ✓ Step 2: Stay on the line
- ✓ Step 3: Hard rock
- ✓ Step 4: A boulder in the clay
- ✓ Step 5: What runs under your street

SAMPLE

For the parent or teacher

Sign here when you have seen the work.

PARENT OR TEACHER SIGNATURE

DATE

MY WORK

Your Name: Bore a tunnel under the city

Levels passed	4
Drives run	11
Furthest I got	Reached Level 10: got past a boulder without chipping a cutter (4 levels done)
Step 1. What holds the hole up while the machine digs?	(what the learner wrote)
Step 1. How many pieces make one ring, and which goes in last?	(what the learner wrote)
Step 2. How far off the line was ring 20 with 50 on every side?	(what the learner wrote)
Step 2. Try 100 on the right. What happened, and why?	(what the learner wrote)
Step 3. How hard was each cutter pressed at 56 (the card says, in kN)? And at 60?	(what the learner wrote)
Step 3. Why does pushing harder stop helping at the rating?	(what the learner wrote)
Step 4. How many hours did the drive take with your event?	(what the learner wrote)
Step 4. Change the first turn block to 2 instead, with no event. How many hours now?	(what the learner wrote)
Step 5. Sign 1: where it was, and what runs under it	(what the learner wrote)
Step 5. Sign 2: where it was, and what runs under it	(what the learner wrote)
Step 5. Sign 3: where it was, and what runs under it	(what the learner wrote)
Step 5. Where a tunnel could cross, and why there	(what the learner wrote)