

WILLIAM YOUNG ②

~~340~~ LASER SINTERING THE PART IS
CREATED INSIDE POWDER AND THE POWDER
ACTS AS A SUPPORT.

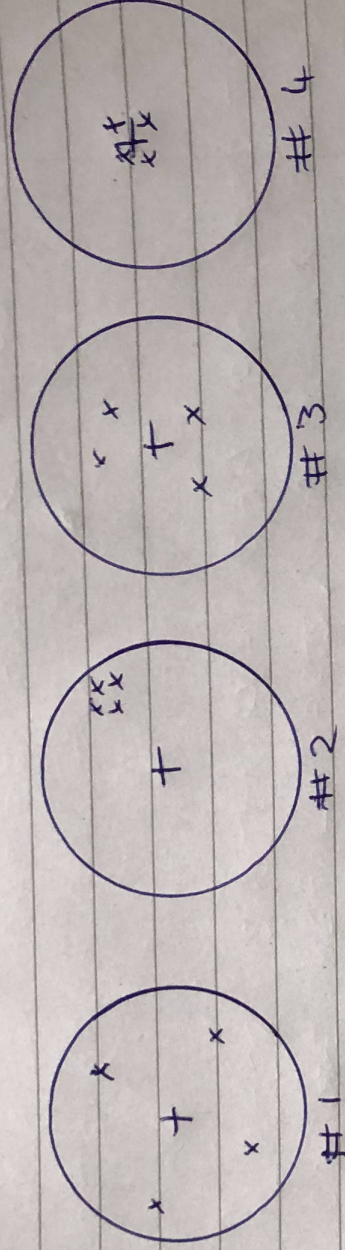
d) LASER SINTERING CAN BE USED TO
CREATE METAL PARTS, A LASER MELTS
A FUSABLE POWDER ON THE SURFACE OF
THE BUILD AREA BEFORE A NEW LAYER
OF POWDER SPREAD OVER THE ~~THE~~
LOWERED BUILD SURFACE AND THE
LASER MELTS THE NEXT SLICE / LAYER

Q2a) COBOT - COLLABORATIVE ROBOT WORKS
IN CONJUNCTION / ALONG SIDE A HUMAN
A ROBOT WORK FULLY INDEPENDENTLY,
ONCE PROGRAMMED.

COBOT	
AD	HUMAN TASKS
FASTER	HUMAN CAN WORK WITHOUT SAFETY ISSUES
~~IS NOT~~ CAN WORK LIGHTS OUT	RESTRICTED TO SPACE
DISAD FIXED IN PLACE	SMALL SIZE

WILLIAM YOUNG ③

c)



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|----|------|----------|-----|------|----------------|
| #1 | BAD | ACCURACY | AND | BAD | REPEATABILITY. |
| #2 | " | " | " | GOOD | " |
| #3 | GOOD | " | " | BAD | " |
| #4 | GOOD | " | " | GOOD | " |

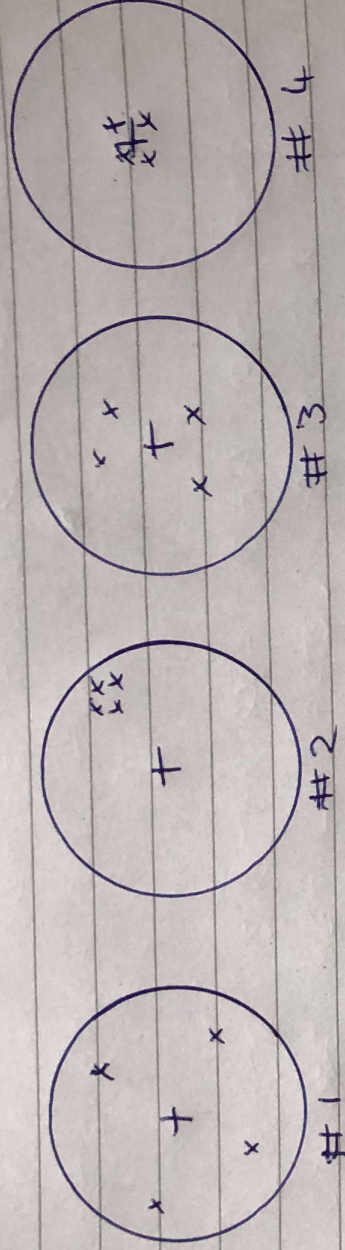
d) ROBOTS ARE BEING USED TO "PRINT"

HOMES / BUILDINGS USING CEMENT AS AN ADDITIVE MATERIAL. THE ROBOT IS POSITIONED IN THE MIDDLE OF THE PLANNED BUILDING AND CEMENT IS FED OVERHEAD VIA A PUMP FROM CONCRETE MIXERS, INSIDE AND OUTSIDE WALLS ARE HELD TOGETHER BY A ZIG ZAGGED SUPPORT STRUCTURE.

NASA IS INVESTIGATING THE USE OF 3D PRINTERS TO BUILD LIVING DOMES ON THE MOON USING THE SILICONE MATERIAL THERE TO REDUCE LOGISTICS OF MATERIALS FROM EARTH.

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c)



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