TWINCLE PROGRAM
Unit J

Subject:Utilization and Acquisition of 3D Scanning
We went to ITB in Indonesia
We conducted four science classes in high school

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▷ Lesson Plan

You may delete all periods (.) in this part because they are not complete sentences

Introduction : Introduced ourselves and Japanese cultures.
▼
Introduction to 3Dsccaner: Introduced 3Dscanners .
▼
3D scanner practice & Drawing activity
:Each of 4 groups of students experienced 3D scanning and sketching Chiba students' faces.
▼
3D data integration & Process
:Explained 3D data integration and process by integrating students' sketches and telling them that the most important factor of using advance technology is our 5 senses.
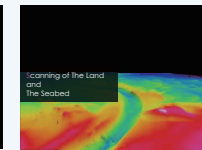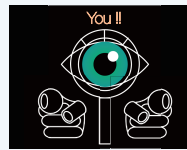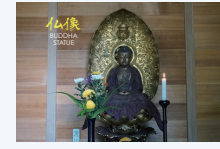▼
Future Prospect:Explained future applications of 3D technology.
▼
Presentation From Aoki`s Research
:Introduced Aoki's resarch using 3D scaning research, which is

SPACING: Aoki's research

SPELLING: 3D scanning research

▷ Improvement of teaching strateges and classroom management

1.Activities

SPELLING: Learners

their cultures

BEFORE

Activities (scanning and drawing)→"Integration of 3D data"
▼

"We should use the data which was scanned and drawn."
Scanning activity → Difficulty of 3D scanning
Drawing activity → · Mechanism of 3D scanning
· Most important thing for design is a person having 5 senses =YOU
▼

AFTER

Activities (scanning and drawing)
→Showed the data which was s
→Explained "Integration of 3D data"

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Use drawing of students

Use scanned data of students

· High school students seemed positively motivated to study.
· They gave many reaction in the class
We used simple ways to convey our ideas.
We'd like to enjoy studying like them.

· Discussion with different major students
→It made our lesson interactive.
Sometimes
GRAMMAR TENSE: is—>was
but we found new perspective through discussion.
It is
GRAMMAR TENSE: is—>was

· Cultural Climate
· Indonesia has tolerance for cultural diversity.
→We were impressed with their respect for own tradition and other people's culture.

We could completely convey our message to the students

Furthe   ell for students.
We showed how 3D scanning can be applied in our culture, and encouraged them to, "Study science more and use technology for our country"

▷ Other activities

Traditional clothes

Bandung zoo

Bank museum

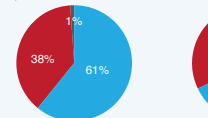Wayang museum

Hot spring

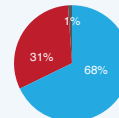Experience of batik

KAWAH RATU RATU CRATER

▷ Conclusion

Questionnaire to the students

How do you evaluate handouts or some materials by the lecturers in your class?

1%
38%
61%

How do you evaluate the lecture, experiment or some activities in your class?

1%
31%
68%

all of them were good
many of them were good
fair

Evaluation of students

· Id like to study more about this material !
· I really want to try to make my own 3D prints.
· I think this program is very good.3D scanner and 3D printing are useful the world.
· I hope in Indonesian technology can be like Japanese technology.
· Maybe next time you can visit us again to tell about another high technology.

We could get good feedback on our lessons.
We think that we could achieve the objectives of our lesson.
And this program is a very good experience for us.
Thank everyone concerned with this program,especially students of ITB.