

THINKING SKILLS AND ICT IN EDUCATION

KUMPULAN SR 2

AHLI KUMPULAN :

- 1) KHAIRUL AMAR BIN ZAINAL ABIDIN**
- 2) ARIF BIN YAAKOB**
- 3) CHIN CHAN XING**

1.0. INFORMATIONS AND COMMUNICATIONS TECHNOLOGY (ICT)

1.1. WHAT IS ICT?

ICT (informations and communications technology - or technologies) is an umbrella term that includes any **communication device** or **application**, encompassing: electronics gadget and network hardware and software, satellite systems and so on, as well as the various services and applications associated with them, such as videoconferencing and distance learning.

1.2. **ADVANTAGES OF ICT**

- work on **home-base**
- **Boost up motivation.**
- **connected to the wider world through ICT**
become global citizens.

**2.0. THINKING
SKILLS
(KEMAHIRAN BERFIKIR)**

2.1. WHAT ARE THINKING SKILLS ?

- Thinking Skills are the mental processes we use to do things like: solve problems, make decisions, ask questions, make plans, pass judgements, organise information and create new ideas.
- Often we're not aware of our thinking - it happens automatically - but if we take time to ponder what's going on then we can become more efficient and more creative with our minds.

2.2. **JENIS-JENIS KEMAHIRAN BERFIKIR**

KEMAHIRAN BERFIKIR

```
graph TD; A[KEMAHIRAN BERFIKIR] --> B[Berfikir secara kritis]; A --> C[Berfikir secara kreatif]; B --> D[Membuat keputusan dan menyelesaikan masalah]; C --> D;
```

Berfikir secara kritis

Berfikir secara kreatif

Membuat keputusan dan menyelesaikan masalah

2.2. **JENIS-JENIS KEMAHIRAN BERFIKIR**

Contoh berfikir secara kritis :

- a) membanding dan membeza
- b) membuat kategori / klasifikasi
- c) menerangkan sebab
- d) menentukan sumber yang dipercayai
- e) membuat ramalan
- f) meneliti bahagian kecil dan keseluruhan
- g) mengusul periksa andaian
- h) membuat inferens
- i) menilai sesuatu

2.2. **JENIS-JENIS KEMAHIRAN BERFIKIR**

Contoh berfikir secara kreatif :

- a) menjana dan menghasilkan idea yang pelbagai (baru, asli, luar biasa, provokatif, mencabar)
- b) mencipta analogi
- c) mencipta metafora
- d) membuat definisi
- e) membuat hipotesis
- f) membuat peta konsep

3.0. KEMAHIRAN BERFIKIR DAN ICT DALAM PEMBELARAN

3.1. APA MAKSUD “PENGUNAAN ICT DALAM P&P” ?

Penggunaan ICT dalam P&P bermaksud :

- menggunakan ICT secara **bijaksana**, **terancang** dan **beresuaian** untuk meningkatkan kecekapan proses dan keberkesanan P&P.**

3.2. WHAT ARE THINKING SKILLS AND ICT IN EDUCATION?

- Thinking skills & ICT in education simply means practising thinking skills by **intergrading** ICT into all area of curriculum.
- Thinking Skills in ICT also helps in developing the students in the **5 key competencies** through their use of e-learning.

3.3. 5 KEY COMPETENCIES IN CURRICULUM

5 KEY COMPETENCIES IN CURRICULUM

EVALUATION

REASONING

INFORMATION PROCESSING

ENQUIRY

CREATIVE THINKING

3.3. 5 KEY COMPETENCIES IN CURRICULUM

Evaluation

- **Developing evaluation criteria**
- **Applying evaluation criteria**
- **Judging the value of information and ideas**

3.3. 5 KEY COMPETENCIES IN CURRICULUM

Information processing

- Finding relevant information**
- Sorting/classifying/sequencing information**
- Comparing/contrasting informatio**
- Identifying and analysing relationships**

3.3. 5 KEY COMPETENCIES IN CURRICULUM

Reasoning

- **Giving reasons for opinions/actions**
- **Inferring**
- **Making deductions**
- **Making informed judgements/decisions**
- **Using precise language to reason**

3.3. 5 KEY COMPETENCIES IN CURRICULUM

Enquiry

- **Defining questions for enquiry**
- **Planning research**
- **Predicting outcomes**
- **Anticipating consequences**
- **Drawing conclusions**
- **Asking questions**

3.3. 5 KEY COMPETENCIES IN CURRICULUM

Creative thinking

- **Generating ideas**
- **Developing idea**
- **Hypothesising :** - Applying imagination
- Seeking innovative alternatives

3.4. THE BENEFITS OF ICT IN LEARNING

- **provides opportunities to engage students to 21st century skills**
- **improve student understanding and mastery of the subject**
- **Individualise learning**

HOW CAN EDUCATION IMPROVES IN ICT

???

SEKIAN TERIMA KASIH